

Junior Engineer Civil Mechanical Electrical and Quantity Surveying and Contract Examination 2019

Exam Date	28/10/2020	
Exam Time	3:00 PM - 5:00 PM	
Subject	Junior Engineer 2019 Civil	

Section: General Intelligence and Reasoning

- Q.1 Which option represents the correct order of the given words as they would appear in an English dictionary?
 - 1.Budget
 - 2.Butcher
 - 3.Buffalo
 - 4.Butterfly
 - 5.Buzzard

Ans

- 1 1, 3, 2, 4, 5
- X 2 3, 1, 2, 4, 5
- X 3. 1, 2, 3, 4, 5
- X 4. 2, 1, 3, 4, 5

Question ID : 6549786 Status : Answered

Chosen Option: 1

Q.2 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

LIST: PEWP :: SALE :

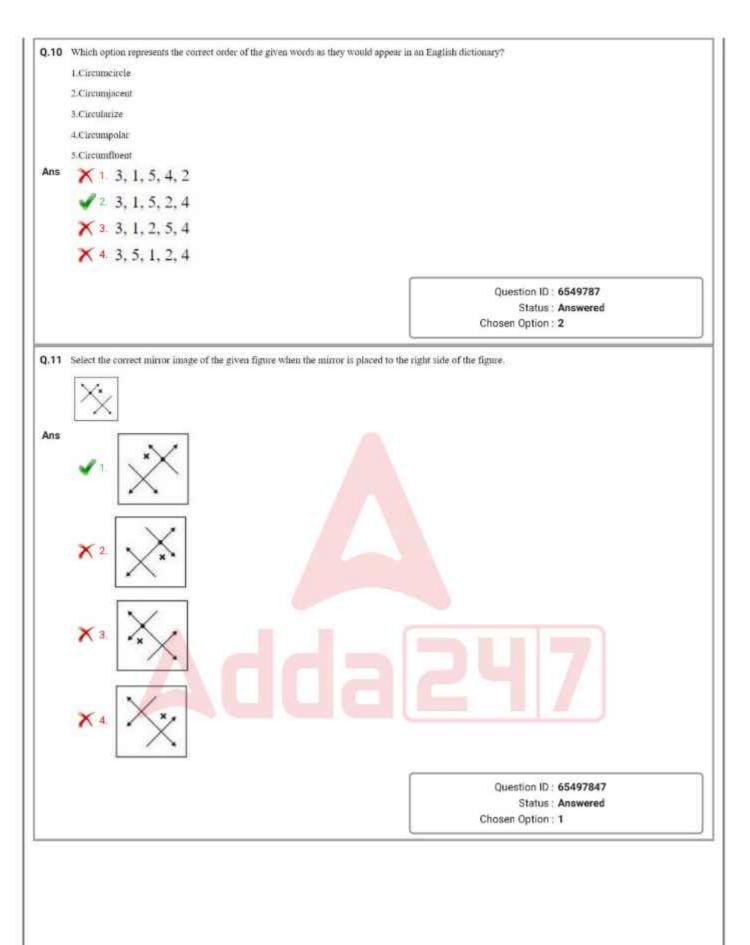
Ans

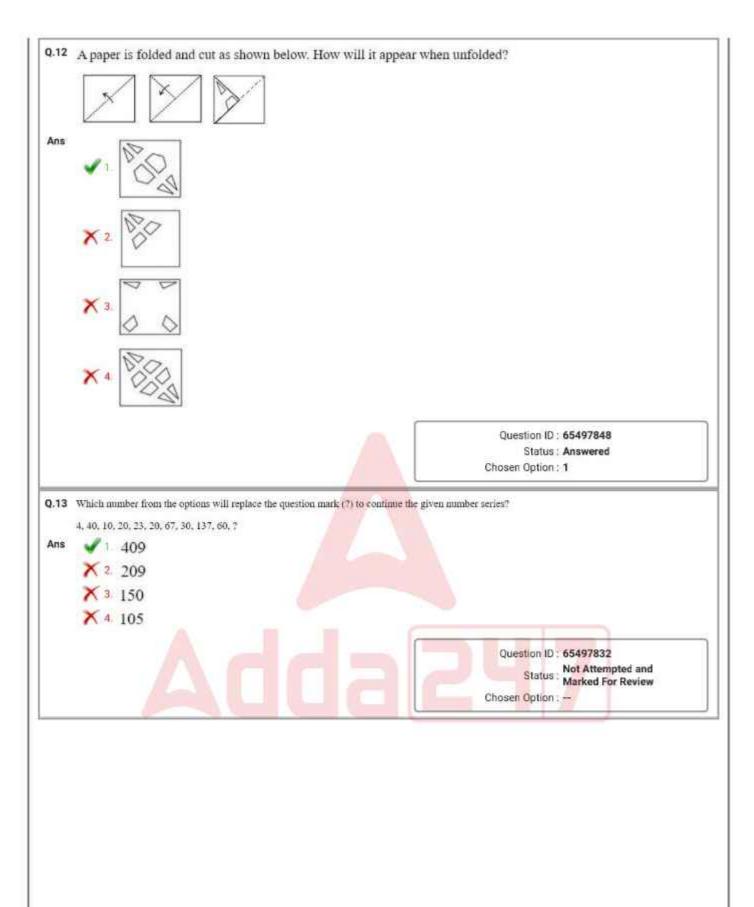
- X 1. WPVA
- X 2 WVPA
- X 3. WPWA
- 4 WWPA

Question ID: 65497816 Status: Answered

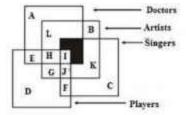
Q.3 The following figure can be folded to form a cube. Find the number on the face opposite the face showing the number 2. Ans X 1. 3 Question ID: 65497843 Status: Answered Chosen Option: 4 Q.4 Which number from the options will replace the question mark (?) to continue the given number series? 15, 19, 28, 44, 69, ? Ans 1 105 X 2 100 X 3. 103 X 4. 99 Question ID: 65497831 Status: Answered Chosen Option: 1 Q.5 Which of the following poins of numbers and signs, when their positions are interchanged, will correctly solve the given mathematical equation? $6 + 3 \times 2 + 4 - 7 = 26.5$ Апа X 1. 4 and 7, X and ÷ X 2 6 and 2, + and -√ 3 3 and 6, – and × X 4 3 and 7, + and -Question ID: 65497840 Status: Answered Chosen Option: 3 Q.6 In a family of six persons, there are two couples and three males. Rachaua is married to Pavan's son. Madhavi is the mother of Hruday and is married to Pavan. Ractama is married to the only brother of Vistail. Divya is the daughter of Pavan's son. Which of the following statements is INCORRECT? Ans Madhavi is Divya's paternal grandmother. Pavan is Vishal's brother. ¾ 3 Hruday and Rachana are married to each other. X 4 Vishal is Divya's paternal uncle. Question ID: 65497828 Status: Answered

Q.7 Select the alternative that arranges the following words in a logical and meaningful order. 1.Design Book Cover 2.Writing 3.Deciding on Title 4. Publishing 5.Choosing a Topic 6.Editing Ans X 1. 5, 2, 6, 1, 3, 4 X 2 5, 6, 2, 1, 3, 4 X 3. 5, 6, 2, 3, 1, 4 ¥ 4 5, 2, 6, 3, 1, 4 Question ID: 6549788 Status: Answered Chosen Option: 4 Q.8 If 'GARDEN' is coded as '14298105' and 'INSERT' is coded as '18511092' then how will 'HEALTH' be coded as?' Ans X 1 165023126 2 161023216 X 3. 160523216 X 4. 161032126 Question ID: 65497822 Status: Answered Chosen Option: 2 Q.9 Three statements are given followed by four conclusions munbered I, II, III and IV. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. Statements: · All girls are experts. Some experts are tourists. · All tourists are foreigners. Conclusions: 1. Some foreigners are experts. II. Some foreigners are girls. III. No foreigner is a girl. IV. All tourists are experts. Ans Conclusion I and either II or III follows X 2 Conclusion IV and either II or III follows X 3. Conclusion I, II and IV follow X 4 All conclusions follow Question ID: 65497824 Status: Answered





Q.14 Study the following diagram and answer the question based on the diagram.



Which region represents Players and Singers who are neither Artists nor Doctors?

Ans









Question ID : 65497850 Status : Answered Chosen Option : 2

Q.15 The total of three numbers is 240. The second number is four times the first number. The third number is three times the first number. What is the third number?

Ans

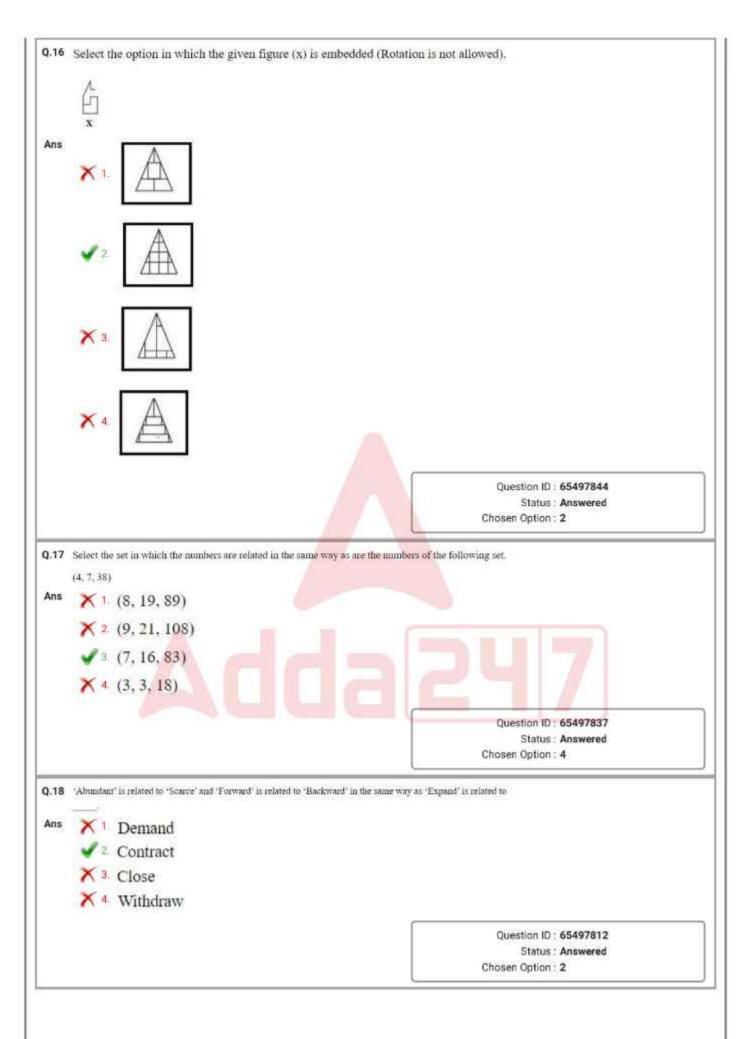
X 2 60

X 3. 180

X 4 120

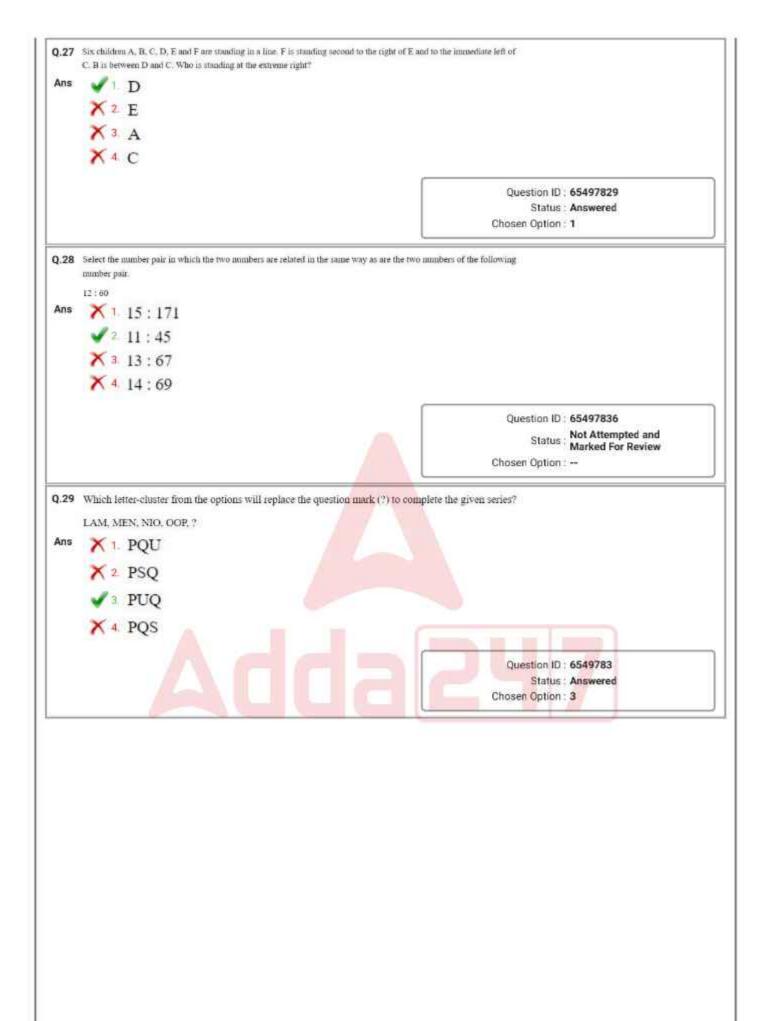
Question ID: 65497841 Status: Answered Chosen Option: 1

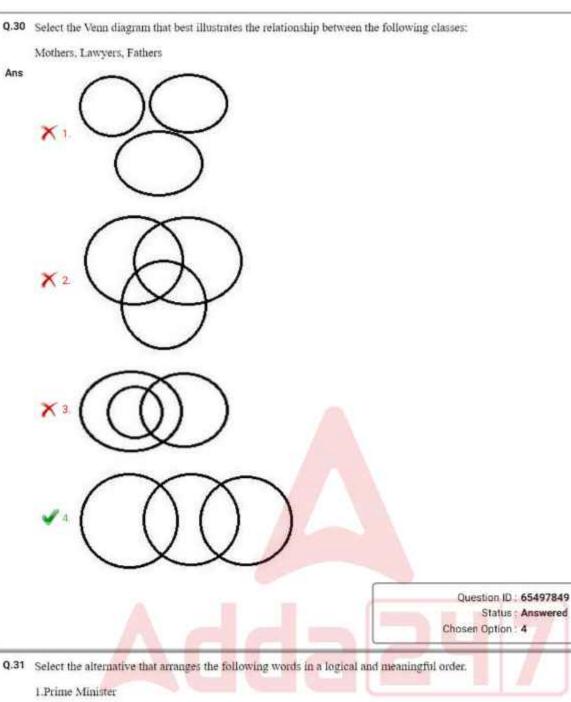




Q.19 Pavani is the mother of Kavya. Kavya is the sister of Dropad. Dropad is the father of Januara. How is Pavani related to Januana? Ans ✓ ¹ Grandmother X 2 Aunt X 3 Sister X 4 Mother Question ID: 65497827 Status: Answered Chosen Option: 1 Q.20 Which letter cluster from the options will replace the question mark (?) to complete the given series? CLKP, BNHT, APEX, ZRBB, ? Ans X 1 YTFY √ 2 YTYF X 3 YYTF X 4 YYFT Question ID: 6549784 Status: Answered Chosen Option: 2 Q.21 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster. WRIST: RWPTS :: MODEL: Ans ✓ □ OMKLE X 2 OMJEL X 3. OMJLE X 4. OMKEL Question ID: 65497817 Status: Answered Chosen Option: 1 Q.22 Which two signs should be interchanged to make the given equation correct? $16 + 4 - 22 \div 2 \times 5 = 58$ Ans VI + and X X 2 + and + X 3 ÷ and X X 4 + and -Question ID: 65497839 Status: Answered Chosen Option: 1

Q.23 Samyu departed from her hostel to reach her institute. She walked 65 in towards the north, and then she turned right and walked 30 m. Then she turned left and walked 45 m. After that, she turned right and walked 20 m. Then she finally turned left and walked 10 m and reached her institute. What is the shortest distance between Sarayu's hostel and her institute? Ans X 1. 120 m ✓ 2 130 m X 3, 150 m X 4 140 m Question ID: 65497826 Status: Marked For Review Chosen Option: 3: Q.24 Select the option that is correct for the bracketed letters and numbers with respect to their inclusion in the given series. I. E. 20, L. Z. (21), P. U. 22, V. P. 24, (E), K. 25. Ans X 1 The first bracketed number is incorrect and the second bracketed letter is correct. 2 Both the bracketed number and letters are correct. 3 Both the bracketed number and letters are incorrect. The first bracketed number is correct and the second bracketed letter is incorrect. Ouestion ID: 6549782 Not Attempted and Status | Not Attempted | Not A Chosen Option: --Q.25 'Bangladesh' is related to 'Kabaddi' in the same way as 'Sri Lanka' is related to ... Ans √ ¹ Volleyball X 2 Cricket X 3 Football X 4 Baseball Question ID: 65497810 Status: Answered Chosen Option: 2 Q.26 Choose the pair that best represents a similar relationship to the one expressed in the original pair of words. Bat : Pup Ans X 1. Mouse : Doe X 2 Cat : Queen Bee X 3. Puppie : Dog ✓ 4 Deer : Fawn Ouestion ID: 65497814 Status: Marked For Review Chosen Option: 3:





- - 2.Chief Minister
 - 3.President
 - 4.Collector
 - 5.Governor
 - 6.Sarpanch

Ans

X 1. 1, 3, 5, 2, 4, 6

¥2 3, 1, 5, 2, 4, 6

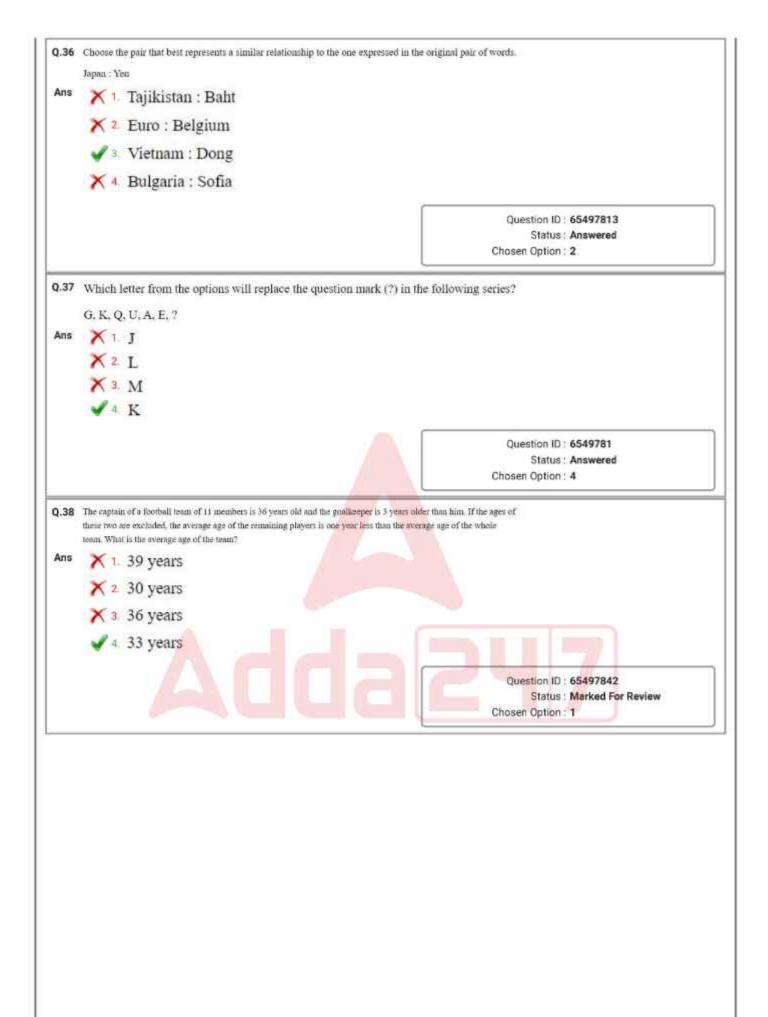
X 3, 1, 3, 2, 5, 4, 6

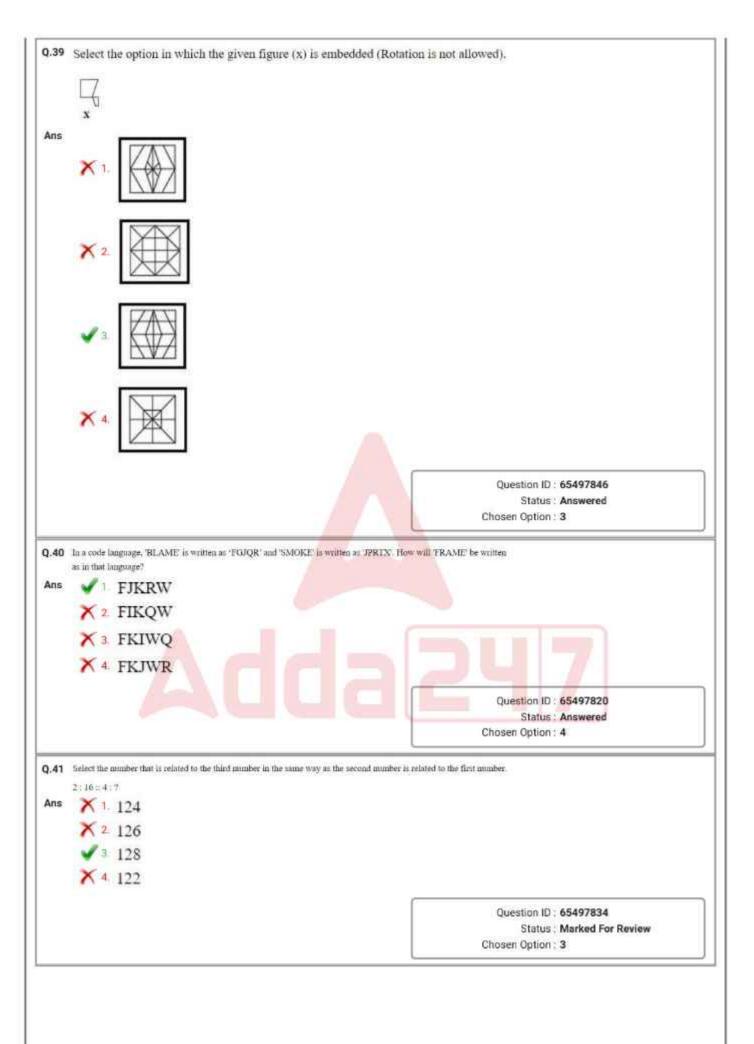
X 4 3, 1, 2, 5, 4, 6

Question ID: 6549789

Status: Answered

Q.32 Which letter-cluster from the options will replace the question mark (?) to complete the given series? CALCULATION, OLCUQATIA, ICUVATL, 7, AFU Ans ✓ I TUAAC X 2 TAUAC X 3. TUACA X 4 TAAUC Question ID: 6549785 Status: Not Answered Chosen Option: --Q.33 If 'MEDIA' is coded as '37' and 'DREAM' is coded as '46' then how will 'ENTER' be coded as? Ans 1 67 X 2 76 X 3. 57 X 4 75 Question ID: 65497821 Status : Answered Chosen Option: 1 Q.34 Select the option in which the numbers are related in the same way as are the numbers in the given set. (4, 44, 88) Ans X 1 (7, 63, 84) ¥2 (6, 66, 132) X 3. (3, 33, 72) X 4. (5, 60, 120) Question ID: 65497838 Status: Answered Chosen Option: 2 Q.35 Select the number pair in which the two numbers are related in the nume way as are the two numbers of the following musber pair 18:196 X 1. 13:82 Ans X 2 12:65 √ 3 17:169 X 4 14:103 Question ID: 65497835 Status: Not Answered Chosen Option: --





x	
× 1.	
× 2	
✓ 3.	
X 4	
	Question ID : 65497845
	Status : Answered Chosen Option : 3
	Status: Answered Chosen Option: 3
Wind speed: Anemometer	Status: Answered Chosen Option: 3
Wind speed : Anemometer Pressure of gas : Manometer	Status: Answered Chosen Option: 3
Wind speed : Anemometer * I Pressure of gas : Manometer * 2 Current : Odometer	Status: Answered Chosen Option: 3
Wind speed : Anemometer 1 Pressure of gas : Manometer 2 Current : Odometer 3 Caliper : Distance	Status: Answered Chosen Option: 3
Wind speed : Anemometer ✓ 1 Pressure of gas : Manometer ✓ 2 Current : Odometer	Status : Answered Chosen Option : 3 In the original pair of words.
Wind speed : Anemometer 1 Pressure of gas : Manometer 2 Current : Odometer X 3 Caliper : Distance	Status : Answered Chosen Option : 3 In the original pair of words. Question ID : 65497815 Status : Answered
 Pressure of gas: Manometer Current: Odometer Caliper: Distance 	Status : Answered Chosen Option : 3 In the original pair of words. Question ID : 65497815
Wind speed : Anemometer * 1 Pressure of gas : Manometer * 2 Current : Odometer * 3 Caliper : Distance	Status : Answered Chosen Option : 3 In the original pair of words. Question ID : 65497815 Status : Answered
Wind speed: Anemometer * 1 Pressure of gas: Manometer * 2 Current: Odometer * 3 Caliper: Distance	Status : Answered Chosen Option : 3 In the original pair of words. Question ID : 65497815 Status : Answered

Q.44 Two statements are given followed by two conclusions numbered I and II Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

- · All cricketers are singers.
- · Some lawyers are singers.

Conclusions:

(I) All the cricketers are lawyers.

(II) Some lawyers are cricketers.

Ans

- Either conclusion I or conclusion II follows
- X 2 Only conclusion II follows
- Neither conclusion I nor conclusion II follows
- A Only conclusion I follows

Question ID : 65497823 Status : Answered Chosen Option : 2

Q.45 Kishore walked 2 km towards the north to reach a library. Then he walked 8 km in the east direction to reach a playground. After that, he turned to the north and walked 3 km. Again, he turned towards the east and walked 2 km to reach a theatre. Find the total distance travelled by Kishore.

Ans

- ✓ 1 15 km
- × 2 10 km
- X 3 13 km
- X 4 11 km

Question ID : 65497825 Status : Answered

Chosen Option: 1

Q.46 In a code language, 'PRAYER' is written as 'UOFVIO'. How will 'SOLVENT' be written as in that language?

Ans

- X 1 XLQSILY
- X 2 XMQSKX
- X 3. XLPSJKY

Question ID: 65497819 Status: Answered

Chosen Option: 4

Q.47 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first

LOCKER : RINPKL :: MAGNET :____

Ans

✓ 1 SUTMKN

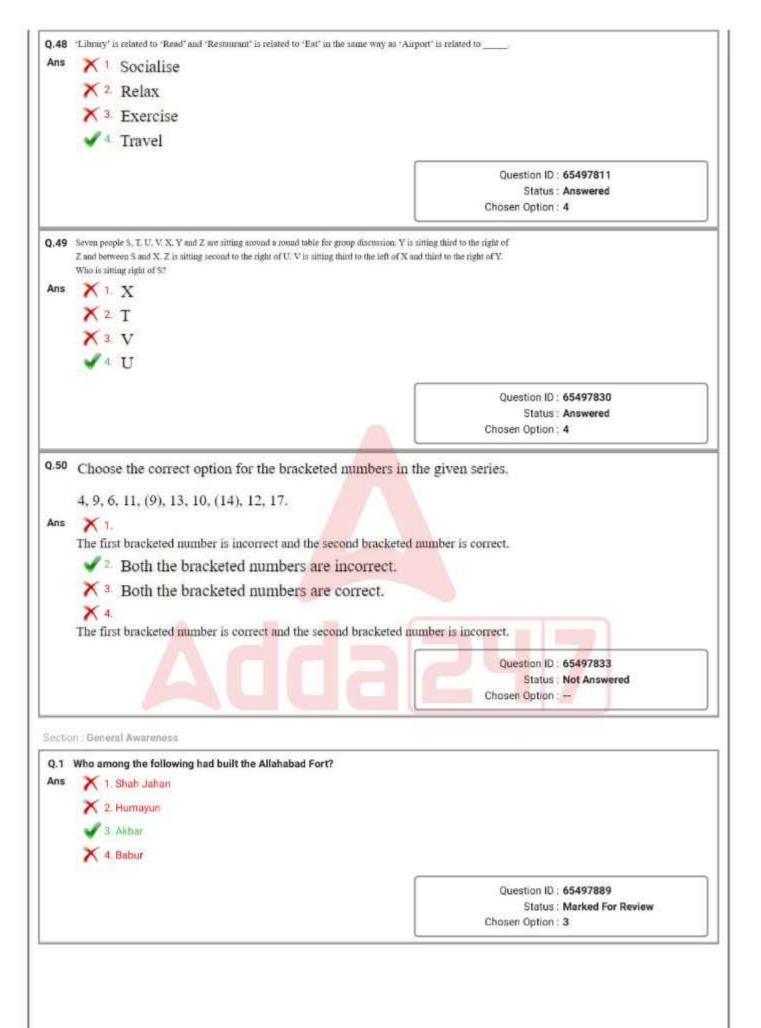
X 2 SUMSKN

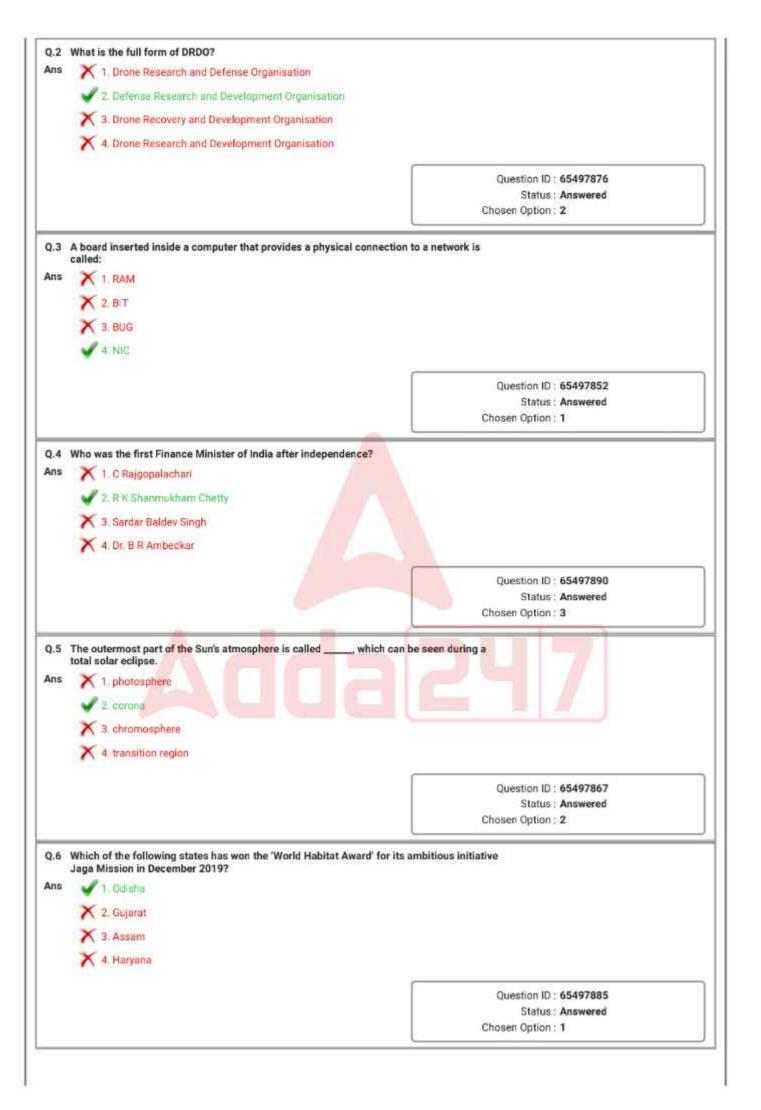
X 3. SUSMKN

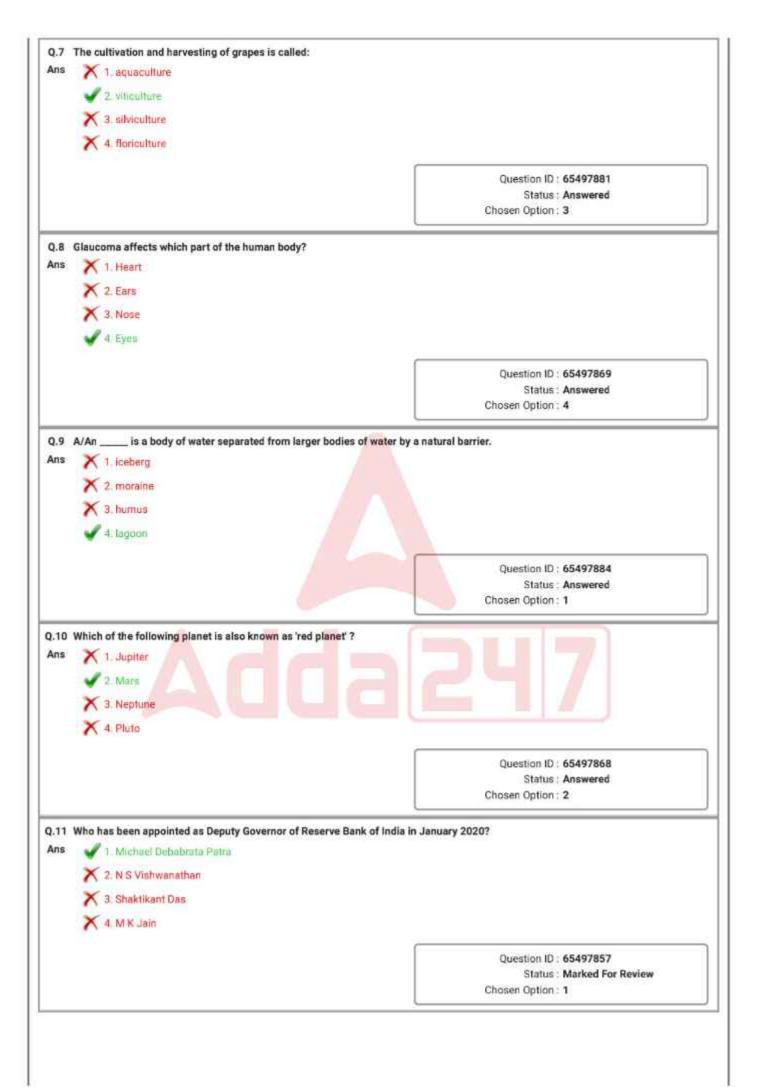
X 4. STUMKN

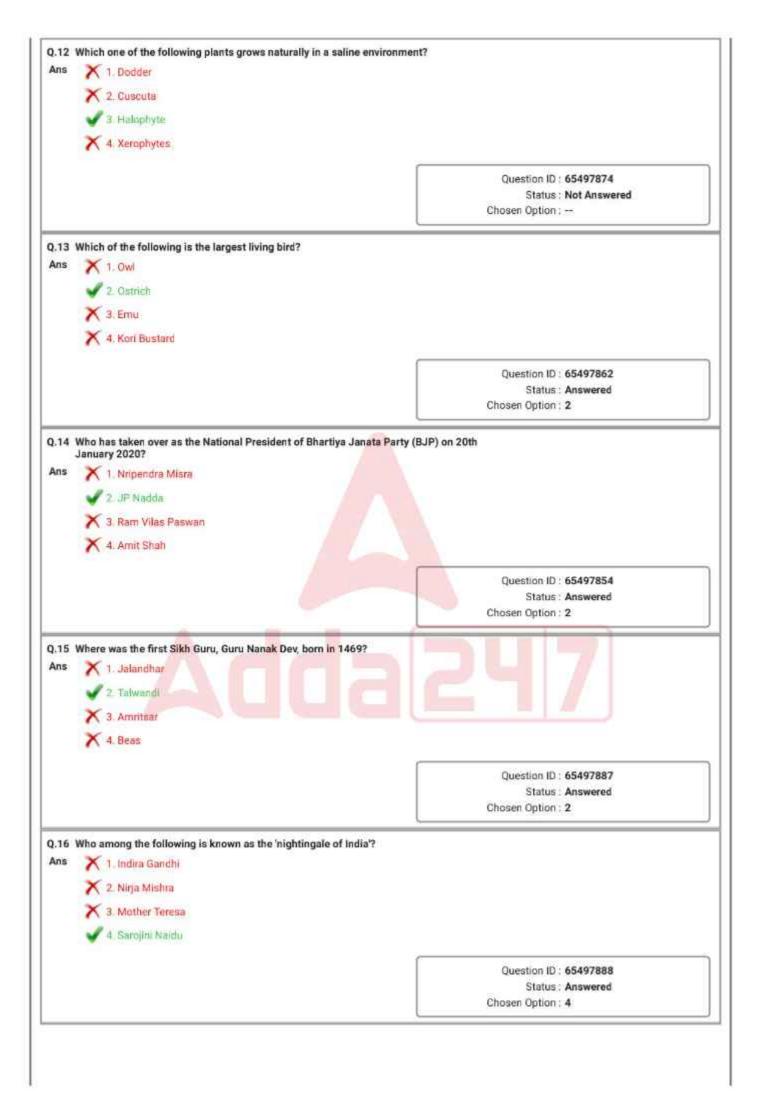
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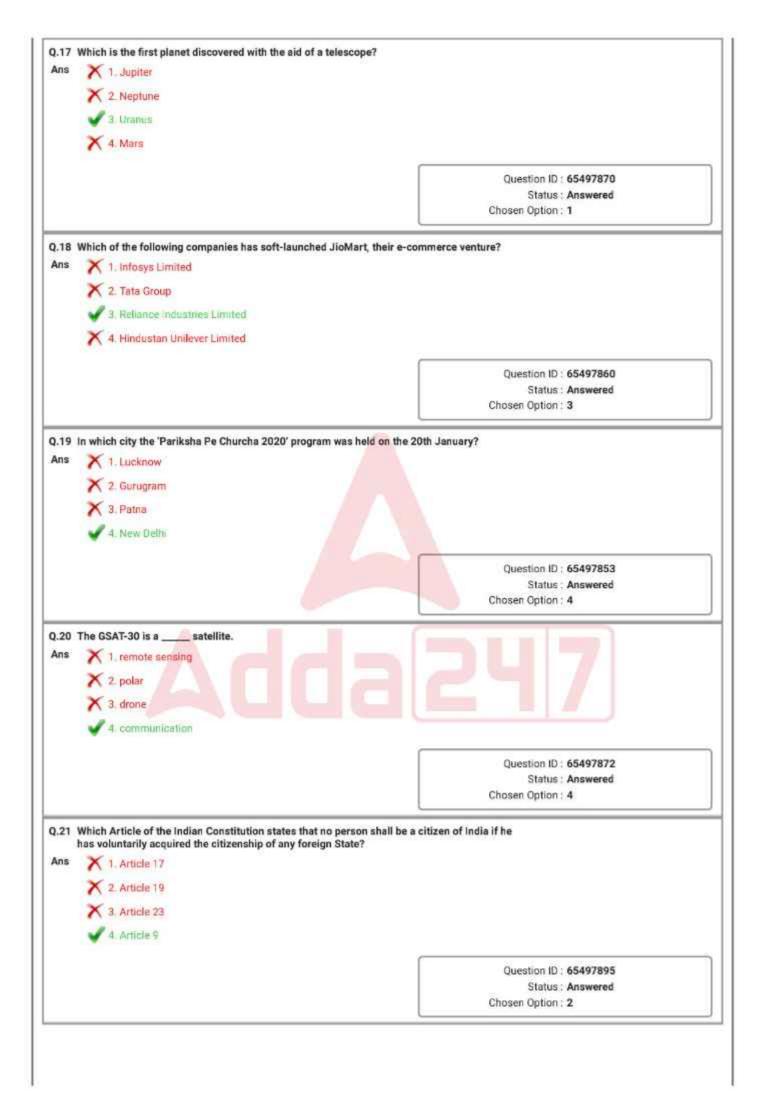
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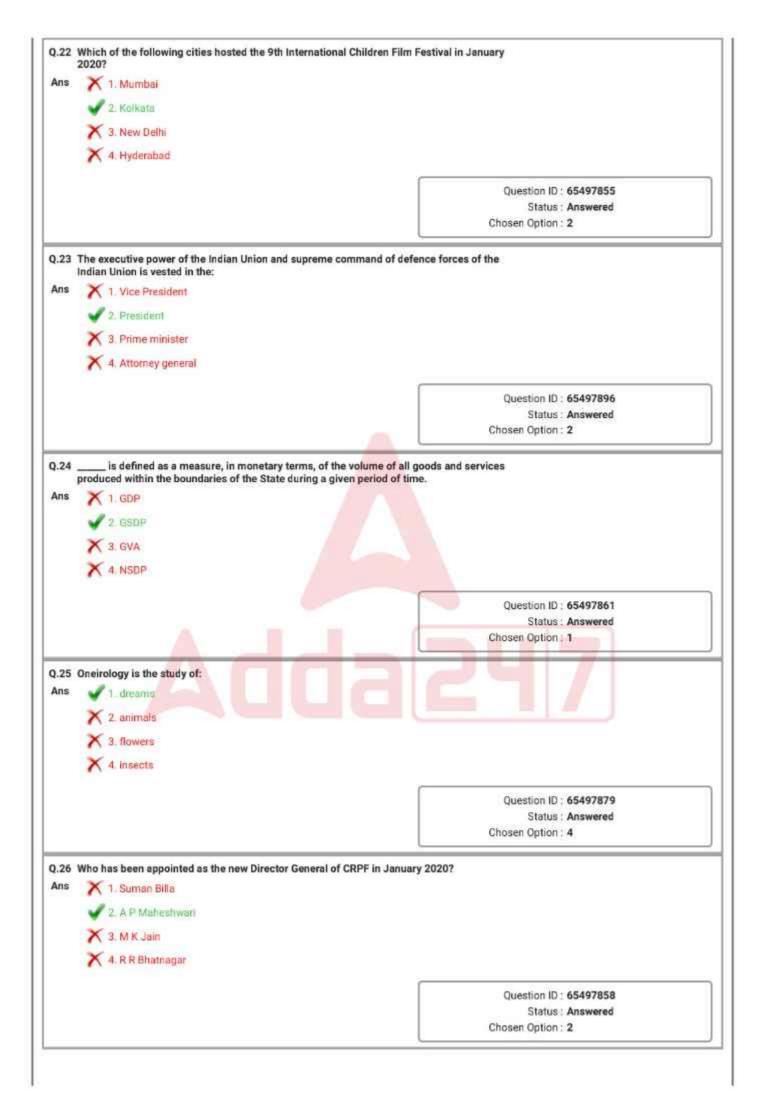


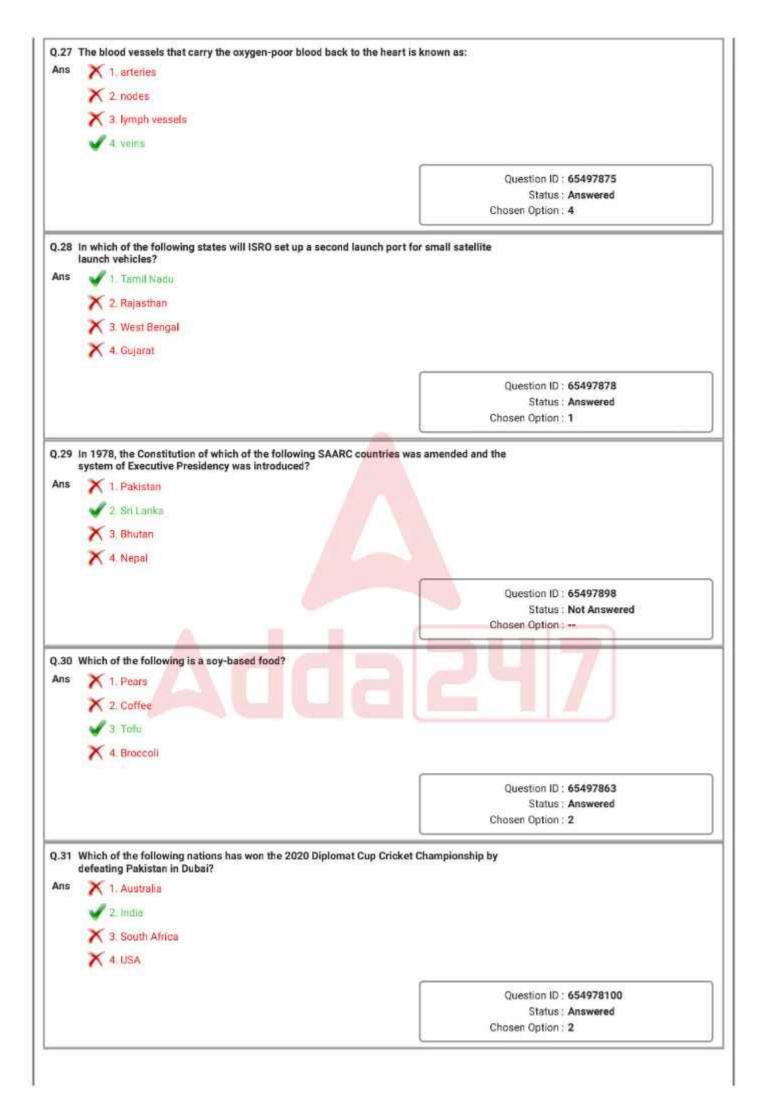


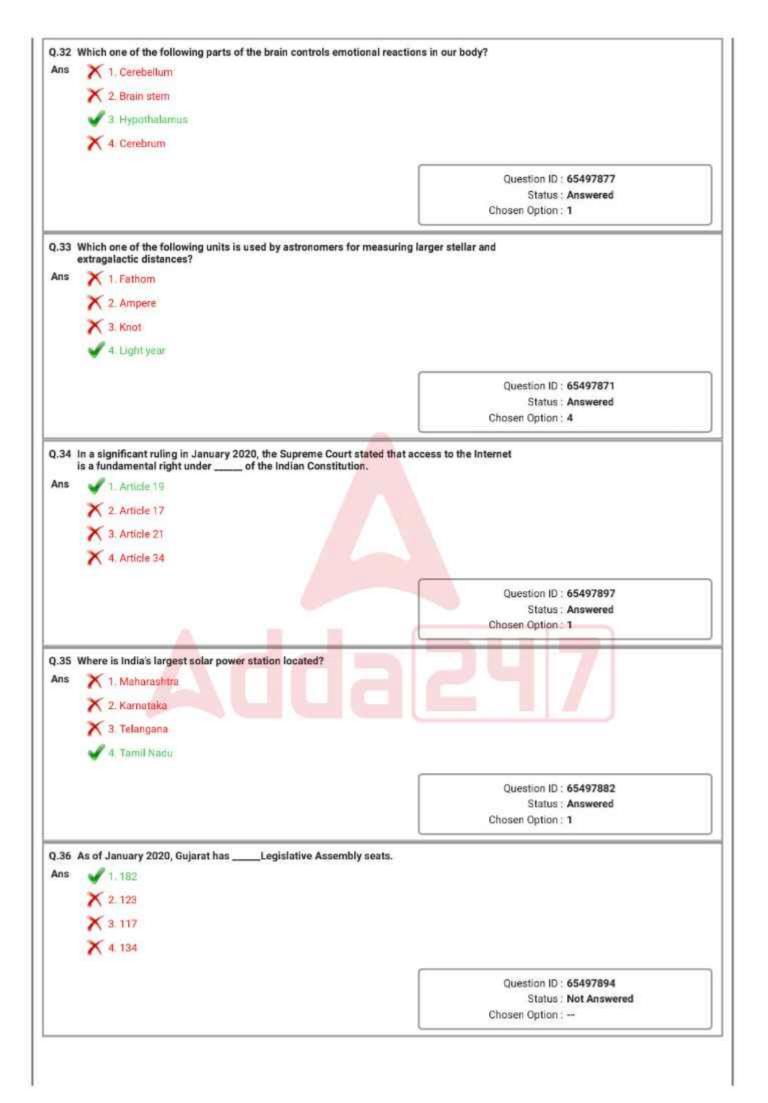


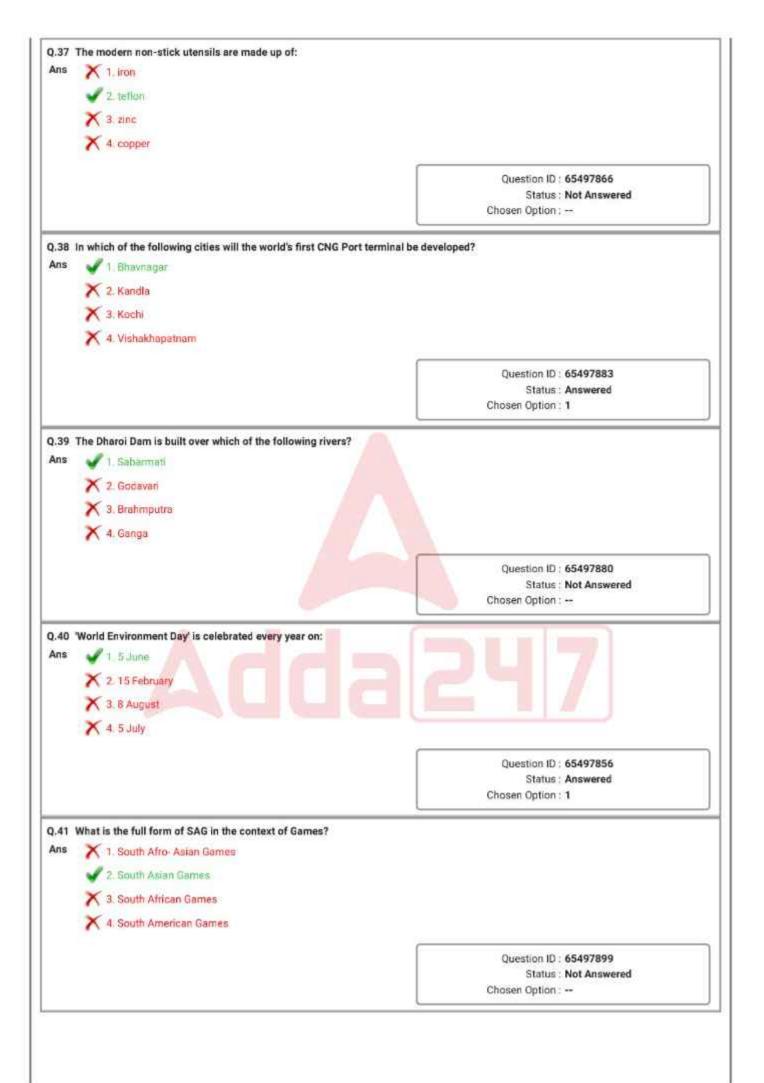


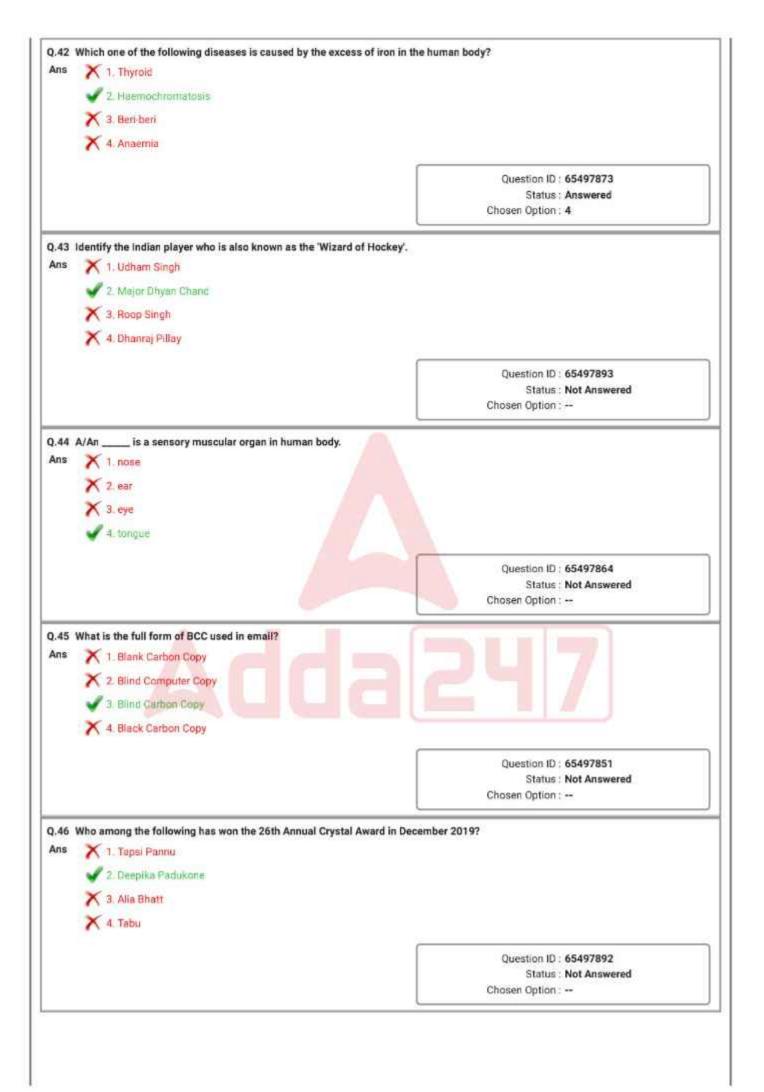


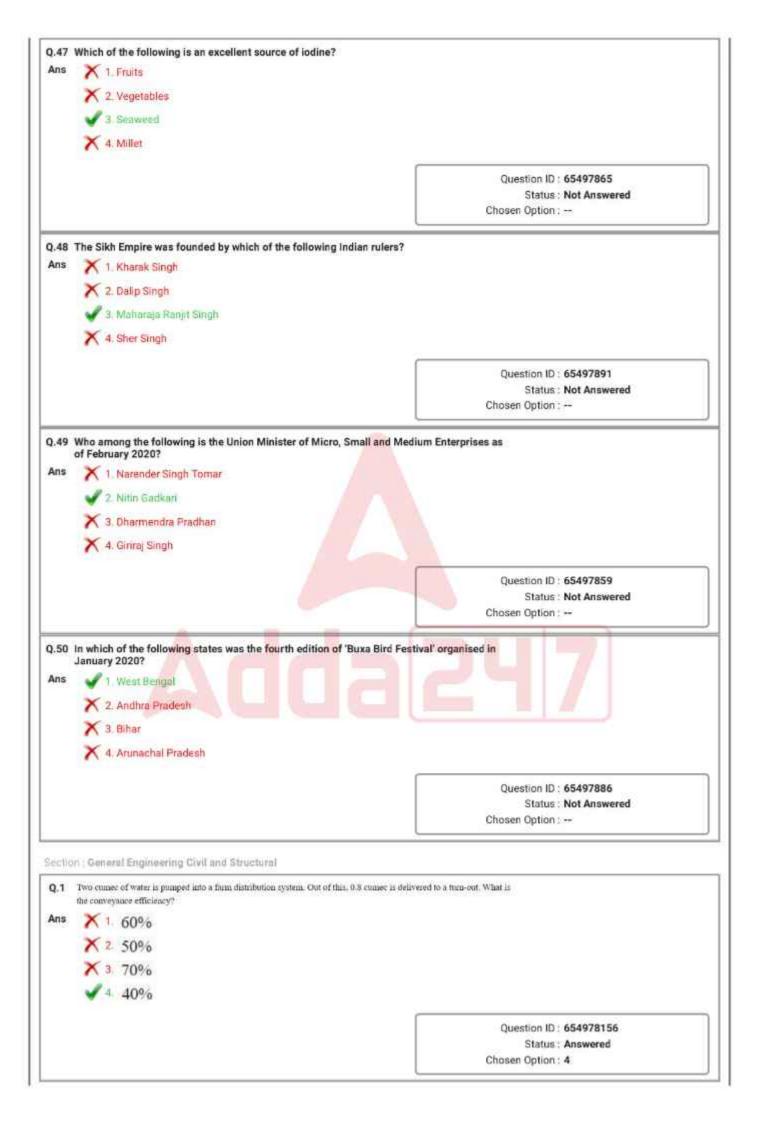












Q.2 What is the standard size of wood specimen for testing durability?

Ans X 1. 500 × 50 × 50 mm

√ 2 600 × 50 × 50 mm

X 3 400 × 40 × 450 mm

X 4. 600 × 60 × 60 mm

Question ID: 654978104

Not Attempted and Status: Marked For Review

Chosen Option: --

Q.3 In which of the following road construction, the finished surface layer of the pavement is given a cross slope of 1 in 45?

Ans

Macadam construction

✓ ² Telford construction

3 Tresaguet construction

× 4 Metcalf construction

Question ID: 654978161

Status: Marked For Review

Chosen Option: 1

Q.4 The change in the slope between two points on a straight member under flexure is equal to the aces of (M/EI) diagram between those two points' is a theorem of which of the following methods?, where M = moment, E = Young's modulus and I = moment of inertia.

Ans

X 1. Castigliano's method

X 2 Strain energy method

X 3 Unit load method

4 Moment area method

Question ID: 654978179

Status: Answered

Chosen Option: 4

Q.5 The Size of a standard modular building brick without mortar as per IS code 1077-1992 is:

Ans

X 1. 20 × 10 × 10 cm

√ 2 19 × 9 × 9 cm

X 3. 22 × 10 × 9 cm

X 4. 21 × 9 × 4 cm

Question ID: 654978102

Status: Marked For Review

Q.6 Which of the following tests is NOT used to test aggregate for its abrasion resistance in concrete works? Ans N 1. Dorry abrasion test 2 Deval attrition test Soundness test X 4. Los Angeles test Question ID: 654978184 Status: Answered Chosen Option: 3 Q.7 Which of the following is NOT used as a coagulant? Ans X 1. Copperas √ 2 Sodium carbonate × 3 Alum X 4 Ferric chloride Question ID: 654978172 Status: Marked For Review Chosen Option: 2 Q.8 The capital mm required to be invested in order to receive a net income as an amounty of ₹1 (Rupee one) at certain rate of interest is called: Ans X 1. Capitalised value X 2 Sinking fund ✓ 3 Year's purchase X 4 Asset value Question ID: 654978121 Status : Marked For Review Chosen Option: 1 What is the disadvantage of combined system of sewerage? Ans Less chances of choking of sewers × 2 It requires only one set of sewers √ 3 Cost of construction is high X 4 Lesser strength of sewage due to dilution Question ID: 654978170 Status: Marked For Review Chosen Option: 3

Q.10 If a line AB has a whole circle bearing (WCB) between 90 degree and 180 degree, then the correct expression used to calculate reduced bearing (RB) is:

Ans

X 1. RB = WCB

X 2 RB = WCB + 90°

X 3. RB = 360° - WCB

√ 4 RB = 180° – WCB

Question ID: 654978129 Status: Answered Chosen Option: 4

Q.11 Which of the following oxidizing chemical is generally used for disinfection of drinking water in the water treatment plant?

Ans

X 1. Alkalis and acids

X 2 Copper ion

X 3 Glutaraldehyde

Question ID : 654978173 Status : Answered Chosen Option : 4

Q.12 The processes of adding chemicals to induce aggregation and settling of finely divided suspended matter, colloidal substances etc. in water treatment plants is called:

Ans

X 1 filtration

√ ² clarification

X 3 aeration

X 4 plain sedimentation

Question ID : 654978171 Status : Answered Chosen Option : 4

Q.13 Which of the following methods is NOT in use for earthwork estimation?

Ans

X 1 Trapezoidal method

2 Prismoidal method

X 3 Mid-section method

4 Crossing method

Question ID : 654978120 Status : Answered Chosen Option : 4 Q.14 What should be the side slope (H : V) and hydraulic mean radius (R) for the most efficient trapezoidal channel having depth of flow equal to y?

Ans

$$\times$$
 1. $H: V = 1: 1 \text{ and } R = \frac{y}{2}$

$$X = H: V = \frac{1}{2} : 1 \text{ and } R = \frac{y}{2}$$

$$X = H: V = \frac{1}{\sqrt{2}} : 1 \text{ and } R = y$$

$$\checkmark$$
 4 $H: V = \frac{1}{\sqrt{3}}: 1 \text{ and } R = \frac{y}{2}$

Question ID : 654978160 Status : Answered

Chosen Option: 4

Q.15 Which of the following method is NOT used for estimating brick work of a building?

Ans

- X 1. Crossing method
- √ ² Mid-section method
- X 3. Long and short wall method
- X 4. Centre line method

Question ID: 654978115

Status: Marked For Review

Chosen Option: 2

Q.16 Heavy foundation stones are not at all necessary to be placed at the bottom layer of road with sub-grade cross slope of 1 in 36. Which of the following methods of construction used this concept?

Ans

- X 1 Telford construction
- × 2. Tresaguet construction
- ✓ 3. Macadam construction
- X 4 Metcalf construction

Question ID: 654978165

Status: Not Answered

Chosen Option: --

Q.17 As per IS 456-2000, what is the maximum shear stress for M30 grade of concrete?

Ans

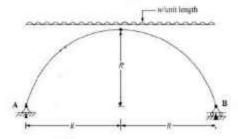
- X 1. 3.10 MPa
- √ 2 3.50 MPa
- X 3. 4.00 MPa
- X 4 2.80 MPa

Question ID: 654978192

Status: Marked For Review

Q.18 A state highway road is to be constructed with bitumen concrete pavement of wirth 7 m wide and a camber of 1 in 50 is provided. What is the rise of crown with respect to edges? Ans X 1. 0.05 m × 2 0.06 m 3. 0.08 m 4 0.07 m Question ID: 654978166 Not Attempted and Status: Marked For Review Chosen Option: --Q.19 Select the INCORRECT statement from the following with regard to weigh batching of concrete. Ans Weigh batching facilitates accuracy, flexibility and simplicity Gauge boxes are used to weigh the fine and coarse aggregates On large work sites, the weigh bucket type of weighing equipment are used. Weigh batching is the correct method of measuring the materials. Ouestion ID: 654978188 Status: Marked For Review Chosen Option: 3 Q.20 The ratio of volume of water present in a given soil mass to the total volume of voids is called: Ans 1 density of solids 2 degree of saturation X 3 water content X 4 bulk unit weight Question ID: 654978135 Status : Answered Chosen Option: 2 Q.21 Stress distribution in soil, the approximate method in which the vertical stress at any point to any loaded area is calculated by: X 1 Newmark's influence chart 2 Boussinesq's method 3 Equivalent point load method X 4. Westergaard's method Question ID: 654978140 Status: Marked For Review Chosen Option: 4

Q.22 Calculate the horizontal support reactions at A and B of a three hinged arch with a radius R subjected to a uniformly distributed load as shown in the figure.



Ans

- $\sqrt{1. \frac{wR}{2}}$
- X2 wR
- \times 3. $\frac{wR^2}{8}$
- \times 4. $\frac{wR^2}{2}$

Question ID: 654978181 Status: Answered

Chosen Option: 1

Q.23 The process of turning the telescope in the theodolite in vertical plane through 450° about the trumion axis, is called:

Ans

- X 1 swinging
- X 2 centring
- X 4 levelling

Question ID : 654978128 Status : Answered

Chosen Option: 3

Q.24 Bernoulli's equation is invalid for:

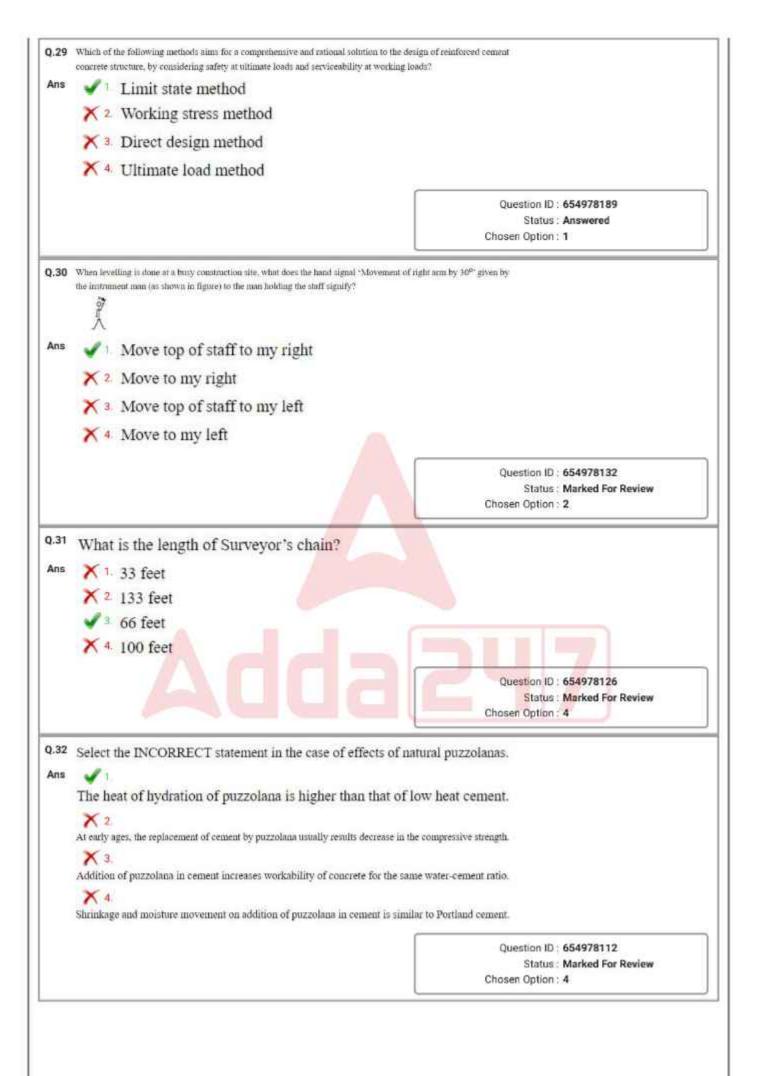
Ans

- X 1 incompressible flow
- X 2 steady flow
- √³ viscous fluid
- X 4 irrotational flow

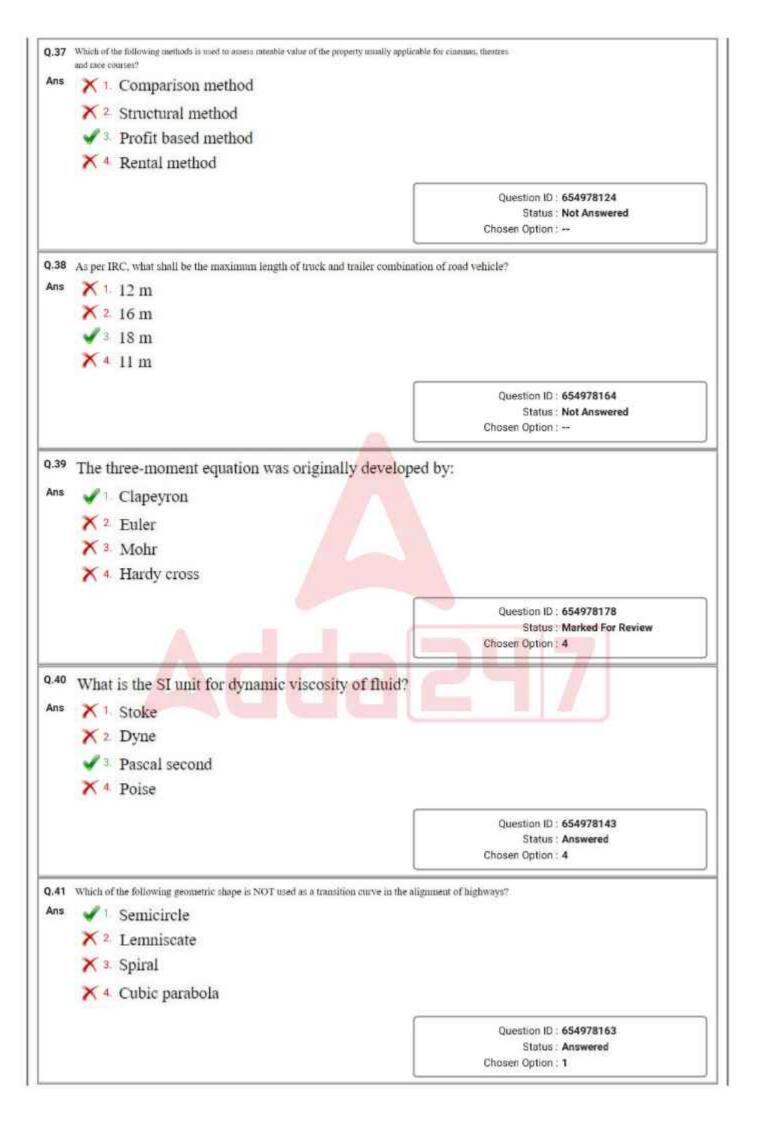
Question ID: 654978146

Status: Answered

Q.25 What should be the upper limit of water absorption of a burnt clay building brick, up to class 12.5 at per IS 1077-1992, when immersed in cold water for a duration of 24 hours? Ans 1. 20% of its dry volume X 2 30% of its dry volume √ 3 20% of its dry weight X 4 30% of its dry weight Question ID: 654978107 Status: Marked For Review Chosen Option: 3 Q.26 According to IS 456-2000, the basic value of span to effective depth ratio for an RCC cantilever beam for span up to 10 Ans X 1. 26 127 X 3. 15 X 4 20 Question ID: 654978190 Status: Answered Chosen Option: 2 Q.27 Calculate the cost of cement required to make a concrete of dry volume 15.4 m⁺ with a mix proportion 1:2:4. Take rate of cement per cubic metre (bulk volume) as ₹500. Ans X 1 ₹1,200.00 X 2 ₹1,300.00 X 3. ₹1,000.00 Question ID: 654978119 Status: Answered Chosen Option: 4 Q.28 Permanent hardness of water is removed by all the following methods. EXCEPT the: × 1 zeolite process X 2 lime-soda process X 3 deionisation process 4 boiling process Question ID: 654978174 Status: Answered Chosen Option: 4



Q.33 In a flow field, a function such that its partial derivatives with respect to any direction gives velocity components at right angles (in the counter clock wise direction) to that direction is called: Ans N velocity potential X 2 local acceleration √ 3. stream function × 4 convective acceleration Question ID: 654978145 Status: Answered Chosen Option: 3 Q.34 What is the range of specific gravity of granite rock aggregates? Ans X 1 2.0 - 2.5 gm/cc X 2 1.0 - 1.6 gm/cc X 3. 1.6 - 2.0 gm/cc √ 4 2.6 - 2.9 gm/cc Question ID: 654978105 Status: Marked For Review Chosen Option: 4 Q.35 Which of the following methods is NOT used to calculate depreciation? X 1 Sinking fund method X 2 Quantity survey method X 3. Straight line method A Rental method Question ID : 654978122 Status: Marked For Review Chosen Option: 2 Q.36 What is the delta (Δ) for the crop when its duty is \$64 hectares m³ and the base period is 120 days. Ans X 1 180 cm X 2 200 cm X 3 100 cm 4 120 cm Question ID: 654978155 Status: Answered Chosen Option: 4



Q.42 Match List-I with List-II and select the correct answer.

List-I	List-II
A. Critical depth	Same specific force
B. Normal depth	Same specific energy
C. Alternate depth	Minimum specific energy
D. Conjugate depth	4. Uniform flow

- Ans V 1. A-3; B-4; C-2; D-1
 - X 2 A-3; B-4; C-1; D-2
 - X 3 A-2; B-1; C-3; D-4
 - X 4. A-4; B-3; C-2; D-1

Question ID: 654978150 Status: Answered Chosen Option: 1

Q.43 Which of the following type of lime is manufactured by burning marble, white chalk, calcureous tufa, pure lime stone, sea shell and coral?

Ans

- Hydraulic lime
- √ 2 Fat lime
- X 3 Hydrated lime
- X 4 Lump lime

Question ID: 654978110 Status: Answered Chosen Option: 2

Q.44 What is the minimum grade of concrete in sea-water or which is exposed directly along the sea-const in the case of plain concrete as per IS code 456-2000?

Ans

- X 1. M30
- √ 2 M20
- X 3. M40
- X 4 M15

Question ID: 654978106 Status: Answered

Q.45 The length of a road measured with a 30 metre chain was found to be 300 metres. What is the true length of the road if the chain was 10 cm too long?

Ans 1. 301 metres

X 2 298 metres

X 3 299 metres

X 4 302 metres

Question ID : 654978133 Status : Answered Chosen Option : 1

Q.46 Arrange the following sludge treatment unit operations and processes in a chronological order.

1. Conditioning; 2. Dewatering; 3. Concentration; 4. Digestion; 5. Incineration; 6. Drying

Ans X 1. 3 -> 2 -> 1 -> 4 -> 5 -> 6

X 2 1 -> 4 -> 3 -> 2 -> 6 -> 5

√3.3 -> 4 -> 1 -> 2 -> 6 -> 5

X41->2->3->4->5->6

Question ID : 654978176 Status : Answered Chosen Option : 1

Q.47 In which of the following types of canal alignment are the cross-drainage works minimised?

Ans Vatershed canal

× 2 Valley canal

X 3 Straight canal

X 4 Contour canal

Question ID : 654978153

Status: Marked For Review

Chosen Option: 1

Q.48 The ability of a material to perform its intended function throughout its designed life without undergoing considerable deterioration is termed as:

Ans

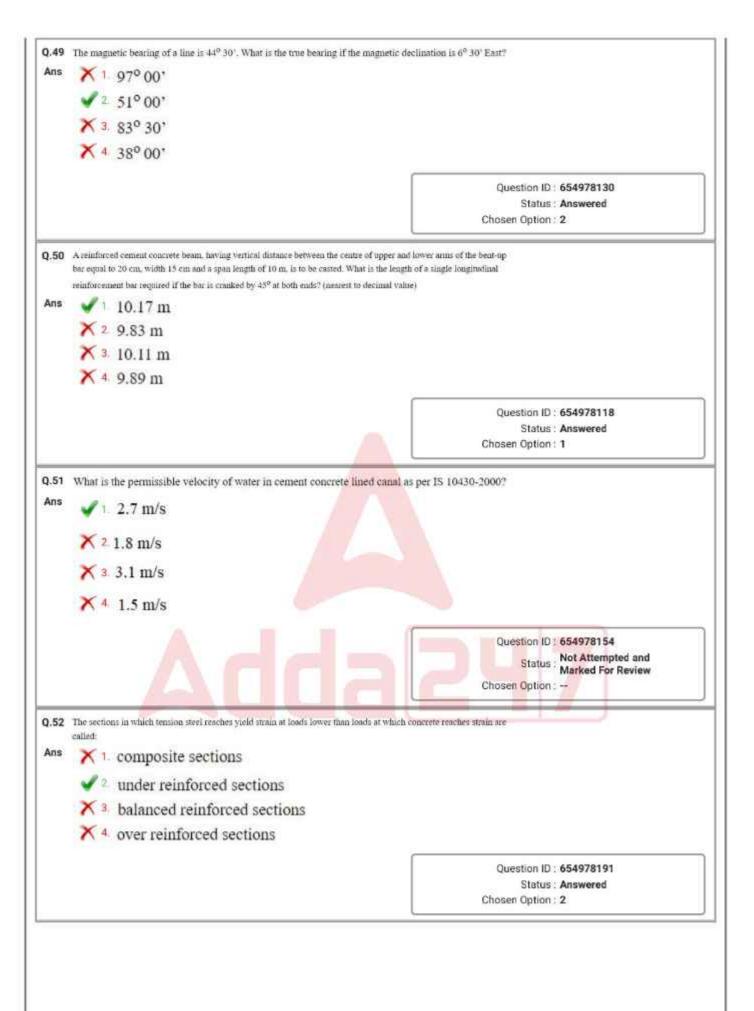
X 1 hardness

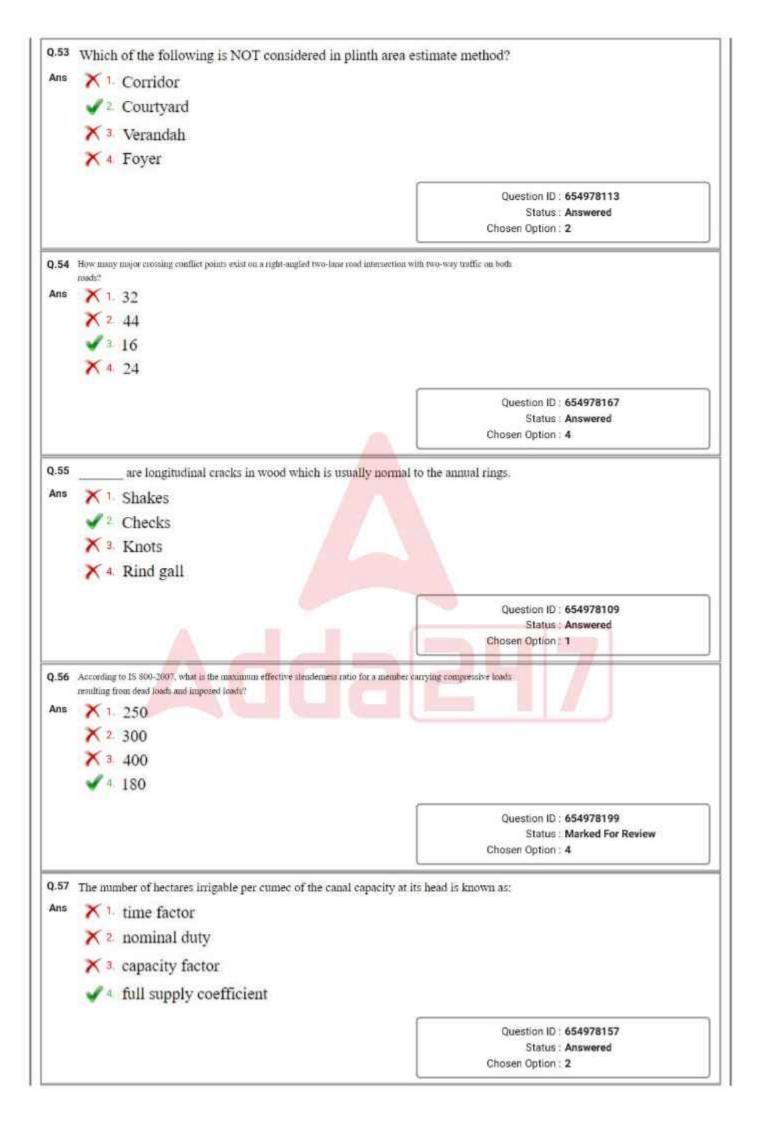
X 2 strength

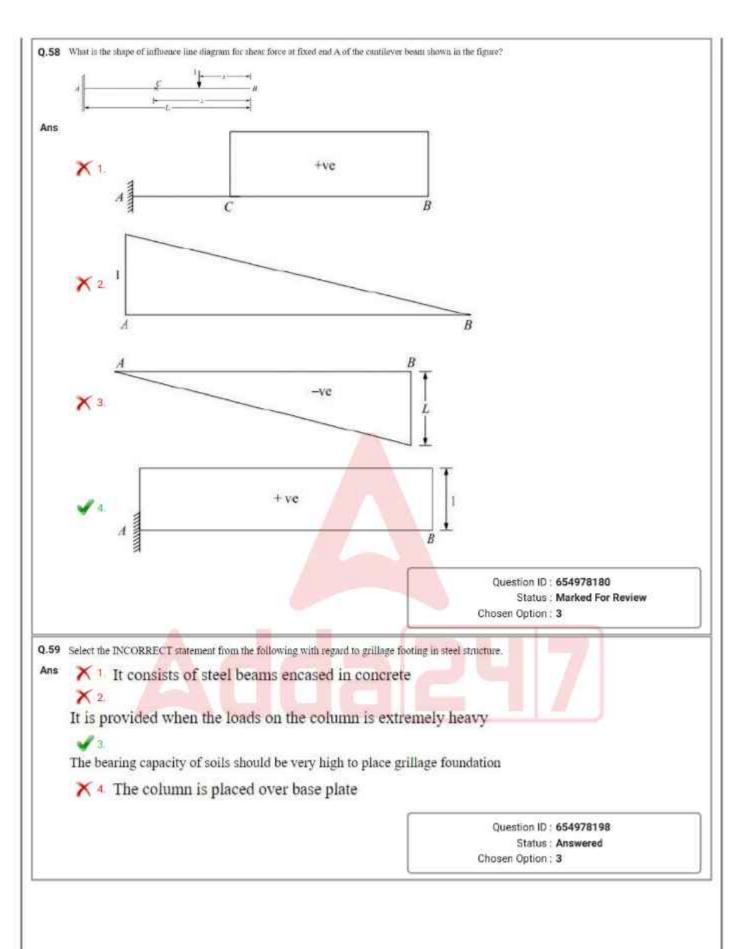
3 durability

X 4 elasticity

Question ID : 654978101 Status : Answered



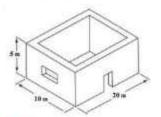




Q.60 Select the INCORRECT statement in the case of triaxial test. Ans The state of stress within the specimen during any stage of test as well as at failure is completely indeterminate 2 The stress distribution on the failure plane is uniform. All the three drainage conditions can be performed with complete control under the test X 4 Precise measurement of pore pressure and volume change during test are possible Question ID: 654978142 Status: Answered Chosen Option: 1 Q.61 In the case of lap joints, the minimum lap should NOT be ______ times the thickness of the thinner part joined, or 40 mm, whichever is more. Ans X 1 more than three 2 less than four X 3 less than three X 4 less than two Question ID: 654978197 Status: Marked For Review Chosen Option : 1 Q.62 Which of the following methods is an initial cost-based valuation? X 1. Quantity survey method X 2 Straight line method X 3. Centre line method 4 Cube rate estimate method Question ID: 654978123 Status: Marked For Review Chosen Option: 4 Q.63 What is the effective length of a compression member having actual length L, when effectively held in position at both ends and restrained against rotation at one end? Ans X 1. 1.00 L X 2 0.65 L X 3 1.50 L 4 0.80 L Question ID: 654978200 Status: Answered Chosen Option: 4

4	Talk I the second second of the second secon	y from to
ns	X 1 0°; 270°	
	✓2. 0°; 90°	
	× 3. 0°; 360°	
	× 4. 0°; 180°	
		Question ID : 654978127
		Status: Answered
		Chosen Option: 2
65	According to IS 8041-1990, which type of cement is recommended to use when	n high early strength is required?
lns.	➤ 1. Portland slag cement	
	★ 2 Ordinary Portland cement	
	X ₃ Sulphate resisting cement	
	✓ 4 Rapid hardening cement	
		Question ID : 654978185
		Status : Marked For Review Chosen Option : 4
	Which of the following is a statically determin	nate structure?
		ate structure?
).66 Ans	 X 1. Propped cantilever beam X 2. Continuous beam ✓ 3. Three hinged arches 	Question ID : 654978177 Status: Answered Chosen Option: 3
	 X 1. Propped cantilever beam X 2. Continuous beam ✓ 3. Three hinged arches 	Question ID : 654978177 Status : Answered Chosen Option : 3
ns	 X 1. Propped cantilever beam X 2. Continuous beam ✓ 3. Three hinged arches X 4. Two hinged arches 	Question ID : 654978177 Status : Answered Chosen Option : 3
67	 X 1. Propped cantilever beam X 2. Continuous beam ✓ 3. Three hinged arches X 4. Two hinged arches In paints, is an oil to which the	Question ID : 654978177 Status : Answered Chosen Option : 3
ns 67	 X 1. Propped cantilever beam X 2. Continuous beam ✓ 3. Three hinged arches X 4. Two hinged arches In paints, is an oil to which the X 1. plasticiser 	Question ID : 654978177 Status : Answered Chosen Option : 3
67	 X 1. Propped cantilever beam X 2. Continuous beam ✓ 3. Three hinged arches X 4. Two hinged arches In paints, is an oil to which the X 1. plasticiser X 2. solvent 	Question ID : 654978177 Status : Answered Chosen Option : 3
.67	 X 1. Propped cantilever beam X 2. Continuous beam ✓ 3. Three hinged arches X 4. Two hinged arches In paints, is an oil to which the X 1. plasticiser X 2. solvent ✓ 3. vehicle 	Question ID : 654978177 Status : Answered Chosen Option : 3 base is mixed.
.67	 X 1. Propped cantilever beam X 2. Continuous beam ✓ 3. Three hinged arches X 4. Two hinged arches In paints, is an oil to which the X 1. plasticiser X 2. solvent ✓ 3. vehicle 	Question ID : 654978177 Status : Answered Chosen Option : 3

Q.68 What is the total area of raking out joint and repointing external walls of the building shown here? Ignore door and window opening.



Ans

- X 1 350 m²
- X 2 150 m²
- ✓ 3 300 m²
- X 4 100 m²

Question ID : 654978116 Status : Not Answered

Chosen Option : --

Q.69 According to 15 10500-2012, the permissible limit of total dissolved solids (TDS) in drinking water in the absence of alternate source is

Ans

- X 1. 1500 mg/l
- √ 2 2000 mg/l
- X 3 1000 mg/l
- X 4 500 mg/l

Question ID: 654978169

Status: Answered

Chosen Option: 2

Q.70 Which of the following rock is an Igneous rock?

Ans

- X 1. Limestone
 - X 2 Marble
- X 4 Gneiss

Question ID : 654978103

Status: Answered

Chosen Option: 3

Q.71 Consider a semi-circular such ring having 5 m inner radius, 40 cm thickness and 5 m breadth. What is the quantity of brick work? (nearest to decimal value)

Ans

- X 1. 36.23 m³
- X 2 30.00 m³
- ✓ 3 32.68 m³
- X 4 38.50 m³

Question ID: 654978117

Status: Not Answered

	What is the slump of pumped concrete used in heavily reinforced section IS 456-2000?	
ns	× 1. 10-25 mm	
	× 2 100-150 mm	
	× 3. 25-50 mm	
	✓ 4 50-100 mm	
		Question ID : 654978187
		Status : Answered
		Chosen Option : 2
2.73	Which type of buckling of axially loaded compression steel member occuppreciably smaller than its bending rigidity?	curs when the torsional rigidity of the member is
Ans	★ 1. Shear buckling	
	★ 2. Flexural-shear buckling	
	✓ 3 Torsional buckling	
	X 4 Flexural buckling ✓ 4 Flexural buckling	
	1 - 1 reading bucking	
		Question ID : 654978196
		Status : Answered Chosen Option : 3
	 ★ 1. level crossing ★ 2. super passage 	
	X ₃ syphon ✓ ₄ aqueduct	
		Question ID : 654978159 Status : Answered Chosen Option : 4
Q.75		Status : Answered Chosen Option : 4
	✓ 4 aqueduct	Status : Answered Chosen Option : 4
	✓ 4 aqueduct The unit of coefficient of permeability ★ 1. m/s²	Status : Answered Chosen Option : 4
	 ✓ 4 aqueduct The unit of coefficient of permeability X 1. m/s² X 2. m³/s 	Status : Answered Chosen Option : 4
	The unit of coefficient of permeability 1. m/s ² 2. m ³ /s 3. m/s	Status : Answered Chosen Option : 4
	 ✓ 4 aqueduct The unit of coefficient of permeability X 1. m/s² X 2. m³/s 	Status : Answered Chosen Option : 4
Q.75 Ans	The unit of coefficient of permeability 1. m/s ² 2. m ³ /s 3. m/s	Status : Answered Chosen Option : 4

Q.76 The concept which defines "the pressure at a certain horizontal level in a static fluid is proportional to the vertical distance to the surface of the fluid' is called: Ans D'Alembert's paradox X 2 Magnus effect X 4. Archimedes effect Question ID: 654978147 Status: Marked For Review Chosen Option: 4 Q.77 According to IS 800-2007, the minimum distance between centre of a fastener shall NOT be less than: 1 32 times the thickness of plate or 300 mm √ 2 2.5 times the nominal diameter of the fastener X 3. 1.5 times the nominal diameter of the fastener X 4 16 times the thickness of plate or 200 mm Question ID: 654978195 Status: Not Answered Chosen Option: --Q.78 Which of the following is a chemical characteristic of waste water? Ans X Odour X 2 Colour X 3. Temperature Biochemical oxygen demand Question ID: 654978175 Status: Answered Chosen Option: 4 Q.79 In an RCC stair case design, the tread slabs are structurally independent units and designed simply as: Ans X 1 flat slab X 2 beams X 4 two-way slab Question ID: 654978194 Status: Marked For Review Chosen Option: 3

Q.80

What is the shear stress of fluid at rest?

Ans

X 1. Unity

√ 2 Zero

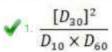
X 3 Uniform

X 4 Infinity

Question ID: 654978144 Status: Answered Chosen Option: 2

Q.81 If D_{10} , D_{10} and D_{60} represent particle sizes in millimetre, then the correct expression for coefficient of curvature (Cc) from a particle size distribution curve is given by:

Ans



$$\times$$
 2 $\frac{[D_{60}]^2}{D_{10} \times D_{30}}$

$$X_3$$
 $\frac{D_{30}}{D_{10}}$

$$\times$$
 4. $\frac{D_{60}}{D_{10}}$

Question ID: 654978139 Status: Answered Chosen Option: 1

Q.82 The quantity (A) of explosive in gram (g) required for rock blusting is roughly estimated using which of the following equation? Where L - length of line of least resistance (w).

Ans

$$A = \frac{L^2}{0.008}$$

$$\times$$
 2 $A = \frac{4L^2}{0.008}$

$$\times$$
 2 $A = \frac{4L^2}{0.008}$
 \times 3 $A = \frac{4L}{0.008}$

$$\times$$
 4 $A = \frac{L}{0.008}$

Question ID: 654978108 Status: Not Answered

Q.83 In the moment distribution method, the ratio of moment shared by a member to the applied moment at the joint is called: Ans X 1. shape factor 2 distribution factor X 3 carry over factor X 4 load factor Question ID: 654978182 Status: Answered Chosen Option: 3 Q.84 What is the temperature of burning the materials in the kiln, at which the material sinters and partially fisses during the manufacture of Portland cement? Ans X 1. 1100°C to 1300°C √ 2 1300°C to 1500°C X 3 950°C to 1100°C X 4 750°C to 950°C Question ID: 654978183 Status: Answered Chosen Option: 2 Q.85 A fluid in which shear stress is more than the yield value and is proportional to rate of shear strain is known as: X 1. Newtonian fluid X 2 non-Newtonian fluid 3 ideal plastic fluid X 4 real fluid Question ID: 654978148 Status: Answered Chosen Option: 3 Q.86 When the depth of flow in an open channel is greater than critical depth, the flow is said to be: Ans X 1. Super critical flow √ 2 sub-critical flow X 3 critical flow X 4 uniform flow Question ID: 654978149 Status: Answered Chosen Option: 2 Q.87 What is the maximum permissible limit of organic solids present in water used in concrete mixing as per IS 456-2000? Ans X 1. 3000 mg/L √ 2 200 mg/L X 3 400 mg/L X 4 2000 mg/L Question ID: 654978186 Status: Answered Chosen Option: 2

	Indian Road Congress (IRC) was set up in	W
	X 2 1978	
	X 3. 1956	
	✓ 4 1934	
	1734	
		Question ID: 654978162 Status: Marked For Review
		Chosen Option: 3
.89	What is the unit of measurement for honeycomb brick work with a thick	mess equal to half brick in 1 : 4 morter?
Ins	X 1. Kilogram (kg)	
	× 2 Running metre (r. m.)	
	3 Square metre (Sq. m.)	
	X 4 Cubic metre (Cu. m.)	
		Ouestion ID : 654978114
		Status: Marked For Review
	wheel base expected on the road is 7 m and design speed is 50 km/h? 1 2 m 2 4 m 3 1 m	Chosen Option : 2
	wheel base expected on the coad is 7 m and design speed is 50 km/h? 1. 2 m 2 4 m	Chosen Option : 2 Contal curve of radius 100 m if the longest Question ID : 654978168 Status : Answered
).90 Ans	wheel base expected on the road is 7 m and design speed is 50 km/h? 1 2 m 2 4 m 3 1 m	Chosen Option : 2 contact curve of radius 100 m if the longest Question ID : 654978168
	wheel base expected on the coad is 7 m and design speed is 50 km/h? X 1 2 m X 2 4 m X 3 1 m X 4 3 m Select the INCORRECT statement from the following with the total load is carried in two directions jointly by s.	Question ID : 654978168 Status : Answered Chosen Option : 1
.91	wheel base expected on the road is 7 m and design speed is 50 km/h? X 1- 2 m X 2- 4 m 3- 1 m X 4- 3 m Select the INCORRECT statement from the following with the statement of the statement from the following with the statement of the statement from the following with the statement from the sta	Question ID : 654978168 Status : Answered Chosen Option : 1 with respect to a two-way slab.
.91	wheel base expected on the coad is 7 m and design speed is 50 km/h? X 1. 2 m X 2. 4 m X 3. 1 m X 4. 3 m Select the INCORRECT statement from the following with the total load is carried in two directions jointly by some 2. The ratio of negative to positive moments is 2.5 m 3.	Question ID : 654978168 Status: Answered Chosen Option: 1 with respect to a two-way slab. Slab and its supporting beams. for fixed ended condition.
.91	wheel buse expected on the coad is 7 m and design speed is 50 km/h? X 1. 2 m X 2. 4 m X 3. 1 m X 4. 3 m Select the INCORRECT statement from the following with the total load is carried in two directions jointly by s. X 2. The ratio of negative to positive moments is 2.5	Question ID: 654978168 Status: Answered Chosen Option: 1 with respect to a two-way slab. Idab and its supporting beams. for fixed ended condition. ffectively to resists torsion and shear.
.91	wheel base expected on the coad is 7 m and design speed is 50 km/h? X 1- 2 m X 2- 4 m X 3- 1 m X 4- 3 m Select the INCORRECT statement from the following with the state of the state	Question ID: 654978168 Status: Answered Chosen Option: 1 with respect to a two-way slab. Idab and its supporting beams. for fixed ended condition. ffectively to resists torsion and shear.

Q.92 In a turbine, the ratio of power available at the shaft of the turbine to the power supplied by the water at inlet of the turbine is called: Ans mechanical efficiency X 2 volumetric efficiency X 4 hydraulic efficiency Question ID: 654978151 Status: Marked For Review Chosen Option: 1 The ruling principle of surveying is to: Ans X 2 work from part to whole X 3 work from line to area X 4 work from point to area Question ID: 654978125 Status: Answered Chosen Option: 1 Q.94 What is the capacity of density bottle used generally for determination of specific gravity of fine-grained soil in the Inboratory as per IS 2720 (Part 3/sec -1)- 19807 Ans X 1. 200 ml X 2 150 ml √ 3 50 ml X 4 100 ml Question ID: 654978136 Status: Not Answered Chosen Option: --Q.95 What is the drive weight and height of free fall in the case of Standard Penetration Test according to IS 2131-1981? X 1. 63.5 kg and 60 cm √ 2 63.5 kg and 75 cm X 3. 65 kg and 60 cm X 4 60 kg and 70 cm Question ID: 654978138 Status: Answered Chosen Option: 2

s	Piston and spring analogy method was demonstrated by Terzaghi for v Noil particle gradation	
	✓ ² Consolidation	
	× 3. Permeability	
	× 4 Compaction	
	Compaction	
		Question ID:: 654978141
		Status: Answered Chosen Option: 2
.97	The crest of the portion of the weir is kept at a lower level than the c	
uns.	pond level	rest of the normal portion of the west.
	× 2 fish ladder	
	× 3. divide wall	
	✓ 4 under sluice	
	under state	
		Question ID : 654978158 Status : Answered
	Which of the following is NOT a traversing ★ 1. Chain and compass survey ★ 2. Chain survey 3. Tacheometer survey	Status : Answered Chosen Option ; 4
	★ 1. Chain and compass survey	Status : Answered Chosen Option ; 4
	 X 1. Chain and compass survey X 2. Chain survey ✓ 3. Tacheometer survey 	Status : Answered Chosen Option : 4 Survey?
	 X 1. Chain and compass survey X 2. Chain survey ✓ 3. Tacheometer survey 	Status : Answered Chosen Option ; 4
).98 Ans	 X 1 Chain and compass survey X 2 Chain survey ✓ 3 Tacheometer survey X 4 Plane table survey 	Status : Answered Chosen Option : 4 SURVEY? Question ID : 654978131
Ans	 X 1. Chain and compass survey X 2. Chain survey ✓ 3. Tacheometer survey X 4. Plane table survey The number of hectages of land irrigated for full growth of a given crop by	Status : Answered Chosen Option : 4 Survey? Question ID : 654978131 Status : Answered Chosen Option : 2
i,99	 X 1 Chain and compass survey X 2 Chain survey ✓ 3 Tacheometer survey X 4. Plane table survey The number of hectaces of land irrigated for full growth of a given crop by continuously during the entire base period of crop in called:	Status : Answered Chosen Option : 4 Survey? Question ID : 654978131 Status : Answered Chosen Option : 2
Ans	 X 1 Chain and compass survey X 2 Chain survey ✓ 3 Tacheometer survey X 4. Plane table survey The number of hectaces of land irrigated for full growth of a given crop by continuously during the entire base period of crop in called: ✓ 1 Duty 	Status : Answered Chosen Option : 4 Survey? Question ID : 654978131 Status : Answered Chosen Option : 2
Ans	 X 1 Chain and compass survey X 2 Chain survey ✓ 3 Tacheometer survey X 4. Plane table survey The number of hectaces of land irrigated for full growth of a given crop by continuously during the entire base period of crop in called: ✓ 1 Duty X 2 Kor-watering 	Status : Answered Chosen Option : 4 Survey? Question ID : 654978131 Status : Answered Chosen Option : 2
Ans	 X 1 Chain and compass survey X 2 Chain survey ✓ 3 Tacheometer survey X 4 Plane table survey The number of hectaces of land irrigated for full growth of a given crop by continuously during the entire base period of crop in called: ✓ 1 Duty X 2 Kor-watering X 3 Delta 	Status : Answered Chosen Option : 4 Survey? Question ID : 654978131 Status : Answered Chosen Option : 2
Ans	 X 1 Chain and compass survey X 2 Chain survey ✓ 3 Tacheometer survey X 4. Plane table survey The number of hectaces of land irrigated for full growth of a given crop by continuously during the entire base period of crop in called: ✓ 1 Duty X 2 Kor-watering 	Status : Answered Chosen Option : 4 Survey? Question ID : 654978131 Status : Answered Chosen Option : 2
Ans	 X 1 Chain and compass survey X 2 Chain survey ✓ 3 Tacheometer survey X 4 Plane table survey The number of hectaces of land irrigated for full growth of a given crop by continuously during the entire base period of crop in called: ✓ 1 Duty X 2 Kor-watering X 3 Delta 	Status : Answered Chosen Option : 4 Survey? Question ID : 654978131 Status : Answered Chosen Option : 2

Q.100 In which of the following types of surveying, is the instrument alidade used?

Ans

X 1 Aerial

X 2 Tacheometric

X 3 Chain

✓ 4 Plane table

Question ID : 654978134 Status : Answered



elligence and Reasoning

n that is related to the third term in the same way as the second term is related to the first term.

EQUILTY:: PERSONAL:?

SRALNO

RSONLA

RSALNO

ELNPRO

Question ID: 8161614222

Status: Answered

Chosen Option: 2

in that is related to the third term in the same way as the second term is related to the first term.

VO::SMILE:?

RLQI

SLPI

-ILGH

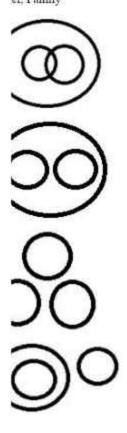
SLPH

Question ID: 8161614221

Status: Answered

who will work in the order in which the	ey appear in an English dictionary.
, 2, 5, 1	
, 1, 3, 5	
, 3, 1, 5	
, 2, 5, 3	
	Question ID : 8161614211 Status : Answered Chosen Option : 2
er-cluster that can replace the question	mark (?) in the following series.
ZA	
AA	
ZA	
AA	
	Question ID : 8161614208
	Status: Answered Chosen Option: 1
tion in which the given figure is embe	edded (Rotation is not allowed).
2]	

nn diagram that best represents the relationship between the following classes. er, Family



Question ID : 8161614254 Status : Answered

Chosen Option: 2

n in which the number share the same relationship as that shared by the given set of numbers.

25, 25, 5)

78, 78, 8)

3, 32, 4)

00, 50, 5)

Question ID: 8161614242

Status: Answered

ans 'L is the son of M'

ans 'L is the mother of M'

eans 'L is the father of M'

eans 'L is the wife of M'

 $+ A + P \times S - B + V$, then how is A related to B?

ternal grandmother

other

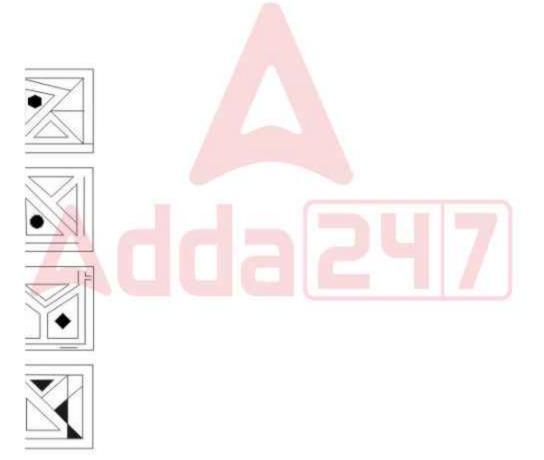
aternal grandmother

anddaughter

Question ID : 8161614232 Status : Answered

Chosen Option: 3

ption in which the given figure is embedded (Rotation is not allowed).



Question ID : 8161614251 Status : Answered

oded as 2415026128 and ALGEBRA is coded as 124722361, then how will FUNCTION be coded? 2834031528 283403428 2283409414 2283409428 Question ID: 8161614227 Status: Answered Chosen Option: 3 n in which the number share the same relationship as that shared by the given set of numbers. 14, 101) 38, 121) 53, 166) 34, 235) Question ID: 8161614243 Status: Answered Chosen Option: 2 s coded as 74 and SPACE is coded as 49, then how will CLERK be coded? Question ID: 8161614226 Status: Answered Chosen Option: 2 et combination of mathematical signs to replace the * signs and to balance the given equation. *3 = 83 -,+,÷ $-, +, \times$ +,-,× +,-,÷ Question ID: 8161614245

Question ID: 8161614245 Status: Answered

age, REFLECT is written as WVKOJXY How will SECTION be written in that language?

VHGNLS

VHGNLS

VXFNLS

VHGNPS

Question ID : 8161614225 Status : Answered Chosen Option : 2

a that is related to the third word in the same way as the second word is related to the first word.

Australia:: Iris:2

ain

oan

ance

nada

Question ID : 8161614217 Status : Not Answered

Chosen Option: --

ollowing information and answer the questions.

s labelled 1, 2, 3, 4, 5, 6, 7 are arranged on a shelf, such that:

3 is placed third to the left of cup 7.

ther cup 3 nor cup 7 are placed at the extreme ends of the shelf.

y one cup is placed between cup 3 and cup 5

3 4 is not placed immediate next to either cup 3 or cup 7.

o cups are placed between cup 5 and cup 1.

2 is placed immediately next to cup 4.

7 cups are placed between cup 1 and cup 7?

Question ID: 8161614235 Status: Not Answered

tter-cluster that can replace the question mark (?) in the following series. TION, OOVOXATIR. ?, TONAV. AIO /OSATI /ORATI OSATO ORATO Question ID: 8161614210 Status: Answered Chosen Option: 3 Bidan's building faces east. From the back side of his building, Bidan walks straight 70 m to reach a gain, be walks 35 mafter turning to his left, then be turns to his right and walks 70 m to reach a bank. towards the north and walks 35 mand stops. nce between the starting and the end point? 0 m 0 m m C 0 m Question ID: 8161614231 Status: Answered Chosen Option: 1 et mirror image of the given figure when the mirror is placed to the right side of the figure. FERENCE CROSSREFERENC ROSSRFEERENCE ROSSREFERENCE CROSSRFEERENC Question ID: 8161614252

Question ID: 8161614252 Status: Answered Chosen Option: 1

n in which the numbers share the same relationship as that shared by the given number-pair.

:81

: 67

: 325

: 299

ption in which the given figure is embedded (Rotation is not allowed). Question ID: 8161614250 Status: Answered Chosen Option: 4 following words in the order in which they appear in an English dictionary. rian sive tion 3, 2, 1, 5 2, 1, 3, 5 1, 3, 2, 5 3, 1, 2, 5 Question ID: 8161614213 Status: Answered Chosen Option: 4

In company are sitting around a circular table to discuss a project and are facing the centre of the circle.

Praveen and Suray. Pavani, is between Miskund and Lokesh. Praveen and Mukuad are opposite to each ting to the right of Mukuad. Who is sitting to the right of Praveen?

Ikund

raj

Question ID: 8161614234 Status: Answered

Chosen Option: 3

tter-cluster that can replace the question mark (?) in the following series.

PB, JTTG, MXXL,?

3BR

kesh

vya

BQ

AQ

BR

Question ID : 8161614209 Status : Answered

Chosen Option: 2

that is related to the third number in the same way as the second number is related to the first number.

Adda 247

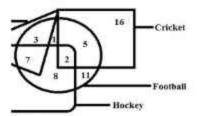
Question ID : 8161614239 Status : Answered Chosen Option : 1

his students to find the arithmetic mean of the numbers 3, 5, 8, 11, 14, 18, 22, 10, 9 and x. A student to be 12. What should be the number in place of x?

Question ID: 8161614246

number that can replace the question mark (?) in the following series. , 13, 0, 17, ? Question ID: 8161614236 Status: Answered Chosen Option: 1 etter that can replace the question mark (?) in the following series. C, X, ? Question ID: 8161614206 Status: Answered Chosen Option: 4 age, LAYOUTS is written as STUOYAL, How will PRODUCT be written in that language? UDORP UDROP DUORP CDORP Question ID: 8161614224 Status: Answered Chosen Option: 1

ng Venn diagram shows the number of students who play different games.



students are playing cricket, football and hockey?

Question ID : 8161614255 Status : Answered

Chosen Option: 3

erent positions of the same dice are shown.







number on the face opposite the face showing '2'?

Adda

Question ID : 8161614248 Status : Answered

Chosen Option: 3

nber that can replace the question mark (?) in the following sequence of numbers.

2, 89763456342, 8976345634, 976345634, 97634563, ?

76345

97358

34563

63456

Question ID : 8161614238 Status : Answered

.....

n that is related to the third word in the same way as the second word is related to the first word. ::Up:? y own ead wn Question ID: 8161614215 Status: Answered Chosen Option: 2 the following words in a meaningful order. ram am am am 3, 5, 1, 4 1, 5, 3, 2 5, 3, 1, 4 3, 1, 5, 2 Question ID: 8161614212 Status: Answered Chosen Option: 3 atements and conclusions carefully. Assuming that the information given in the statements is true, even at variance with commonly known facu, decide which of the given conclusions logically follow(s) áts. E cata re frogs. знакея Time cars re unakes. ily conclusions I and III follow ily conclusions I and II follow ily conclusion I follows

in that is correct for the bracketed letters with respect to their inclusion in the given series, (M), I, 9, R, O, 12, Y, U, 15, (G).

th the bracketed letters are incorrect.

acketed letter is incorrect and the second bracketed letter is correct.

acketed letter is correct and the second bracketed letter is incorrect.

th the bracketed letters are correct.

Question ID: 8161614207 Status: Answered Chosen Option: 4

in in which the words share the same relationship as that shared by the given pair of words.

der

cant: Empty

10re: Notice

eate : Destroy

tial: Final

Question ID: 8161614218 Status: Answered

Chosen Option: 3

a that is related to the third word in the same way as the second word is related to the first word.

Blood::Podiatry:?

ver

dney

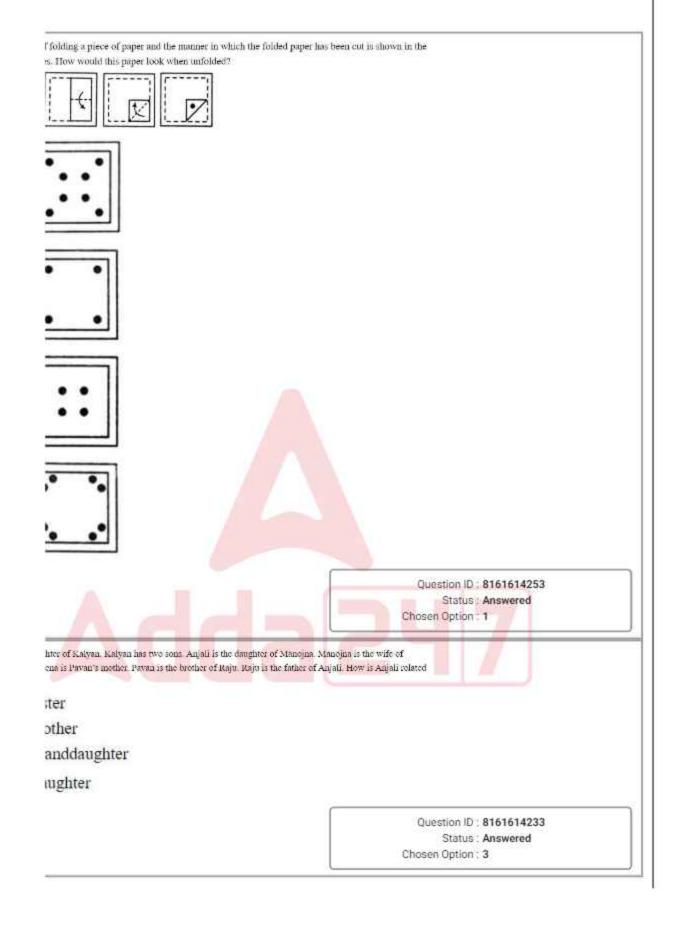
ıkle

ull

Question ID: 8161614216

Status: Answered

[[[1] [[[[[] [[] [[] [[] [[] [[] [[] [[]	hey appear in an English dictionary.	
US .		
201		
4, 5, 1, 2		
5, 4, 1, 2		
5, 4, 2, 1		
4, 5, 2, 1		
	Question ID : 8161614214	
	Status: Answered Chosen Option: 1	
ांध : पुष्प	नीचे दिए गए शब्द-पुरम के शब्दी के बीच है।	
इ : बलवा गंध : पुष्प इ : झुंड		
^{समुदाय} इ : बलवा गंध : पुष्प इ : झुंड विक : चालक दल	Question ID : 8161614219 Status : Answered Chosen Option : 4	
इ : बलवा गंध : पुष्प इ : झुंड	Question ID : 8161614219 Status : Answered Chosen Option : 4 kes a right turn and drives 30 km to reach a bus nk Family, he takes a left turn and drives 30 km.	



n that is related to the third term in the same way as the second term is related to the first term. APARNVRTCI:: TURBULENCE : ? **FBREONEEC TBRFOENEC** [BRFNNEEC **TBRFONEEC** Question ID: 8161614223 Status: Answered Chosen Option: 4 d by Sudeep in three subjects Mathematics, Physics and Chemistry, are in the ratio 4:5:6. Sudeep I aggregate of 60% in the exam. If the maximum marks for each subject are the same, in how many eep score more than 70% marks? 70 ro ree le. Question ID: 8161614247 Status: Answered Chosen Option: 3 signs should be interchanged to make the given equation correct? 12 + 12 - 54 = 0ind ind + ind + and -

number that can replace the question mark (?) in the following series.

, -1, 24, -12, ?

6 7 Question ID : 8161614244 Status : Answered

Question ID: 8161614237

atements and conclusions carefully. Assuming that the informs at variance with commonly known facts, decide which of the g ats.	
nos. Bes.	
n. M. 10 Vani.	
ther conclusion I or III follows.	
ily conclusions I and II follow.	
I the conclusions follow.	
dy conclusions II and III follow.	
	Question ID : 8161614228 Status : Answered Chosen Option : 1
लू : पशुशावक र्गा : उछलना न्लू : उड़ना	Question ID : 8161614220
Δdd	Status: Answered Chosen Option: 3
that is related to the third number in the same way as the second	nd number is related to the first number.
6	
0	
0	
4	
	Question ID : 8161614240 Status : Not Answered Chosen Option :

rareness

dence, when was the National Development Cou	ncil constituted?
arch 1950	
otember 1964	
arch 1952	
gust 1952	
	Question ID : 8161614264 Status : Not Answered
	Chosen Option :
sphere of Earth is India located?	
nern hemisphere	
nern hemisphere	
ern hemisphere	
in northern and southern hemisphere	
	Authoritisation and topological and authoritis
	Question ID : 8161614285
	Status: Answered
	Status : Answered Chosen Option : 4
will turn when contacted with acid.	
ge	Chosen Option : 4
ge	Question ID : 8161614270
ge	Chosen Option : 4
ge A III	Question ID : 8161614270 Status : Answered Chosen Option : 2
ation of a chemical reaction with the help of che	Question ID : 8161614270 Status : Answered Chosen Option : 2
ation of a chemical reaction with the help of che	Question ID : 8161614270 Status : Answered Chosen Option : 2
ation of a chemical reaction with the help of che	Question ID : 8161614270 Status : Answered Chosen Option : 2
ation of a chemical reaction with the help of che	Question ID : 8161614270 Status : Answered Chosen Option : 2
ration of a chemical reaction with the help of che nonix nical balance nical statement	Question ID : 8161614270 Status : Answered Chosen Option : 2
ration of a chemical reaction with the help of che nonix nical balance nical statement	Question ID : 8161614270 Status : Answered Chosen Option : 2
ge	Question ID : 8161614270 Status : Answered Chosen Option : 2

	r of England?	
ton Churchill		
nent Attley		
ck lawrence		
Alexander		
1	Question ID : 8161614296	
	Status: Answered	
	Chosen Option: 1	
ason that the sky looks blue?		
shorter in wavelength, blue is scattered easily		
s made up of blue-colour particles		
colour is more prominent in the sky		
colour has longer wavelength		
(764mo 114-703 (345) WHI 64-65 (544) 6	_
	Question ID : 8161614277 Status : Answered	
	Chosen Option: 1	
	Yojana for	
etaka khand Pradesh	Yojana for	
etaka khand Pradesh	Question ID : 8161614261 Status : Answered Chosen Option : 3	
ataka khand Pradesh hya Pradesh	Question ID : 8161614261 Status : Answered	
etaka khand Pradesh hya Pradesh	Question ID : 8161614261 Status : Answered	
etaka khand Pradesh hya Pradesh (lowing, whose calorific value is the highest?	Question ID : 8161614261 Status : Answered	
etaka khand Pradesh hya Pradesh Ilowing, whose calorific value is the highest?	Question ID : 8161614261 Status : Answered	
hya Pradesh Ilowing, whose calorific value is the highest?	Question ID : 8161614261 Status : Answered	
hya Pradesh Ilowing, whose calorific value is the highest?	Question ID : 8161614261 Status : Answered Chosen Option : 3	_
tate did PM Narendra Modi launch PM Kisan Samman Nidh ataka khand Pradesh hya Pradesh llowing, whose calorific value is the highest? nane as	Question ID : 8161614261 Status : Answered	_

Viceroy of India when India got independence on 15 august 1947? Kingsford en Hastings Wayell Mountbatten Question ID: 8161614295 Status: Answered Chosen Option: 4 s famous for: vorld's highest snowfall vorld's highest frost vorld's highest rainfall vorld's highest temperature Question ID: 8161614287 Status: Answered Chosen Option: 3 Preamble of Indian constitution, which of the following statements is anot be amended by the parliament. not a part of the Constitution. licates the objectives to be achieved. s later included in the Constitution in 1972 by a constitutional amendment. Question ID: 8161614303 Status: Answered Chosen Option: 3 मडन एंग्लो ओरिएंटल कॉलेज की स्थापना किसने की थी? द अली जिल्ला अहमद खान सादुल्ला गई नौरोजी Question ID: 8161614294 Status: Answered Chosen Option: 2

nemical formula of sodium chloride?	
2	
04	
	Question ID : 8161614267
	Status : Answered Chosen Option : 1
	- California Control
constitutional advisor to the Constituent Assem	ibly?
au	
ndra Prasad	
rishnammachari	
mbedkar	
	Question ID: 8161614301
	Status : Answered Chosen Option : 1
	Chosell Option: 1
f India is broadly described as:	
soon type	
type	
torial type	
and semi-arid type	
and semi-and type	
	Question ID: 8161614289
	Status : Answered
	Chosen Option: 1
hy associated with which sport?	
Tennis	
int.	
ey	
ey	
cey	Question ID : 8161614263
bell	Question ID : 8161614263 Status : Answered

s a/an: gen fixing bacteria dotte nur fixing bacteria Question ID: 8161614283 Status: Answered Chosen Option: 1 s due to the Guttation process in the plants? I plant cells are replaced by newer ones. en is converted into food. is released. ss water is released from plants through leaves. Question ID: 8161614282 Status: Not Answered Chosen Option: -ason of rising of oil in the wick in a lamp? ace tension very light llary action sion of all through wick Question ID: 8161614279 Status: Answered Chosen Option: 3 tired at the high mountain peaks? use of high temperature: iuse of high pressure outside the body iuse of low pressure outside the body use of low temperature

Question ID : 8161614284 Status : Answered

umidity is measured with the help of:	
iometer	
pelectric meter	
idograph	
ometer	
	Question ID : 8161614274
	Status : Answered Chosen Option : 4
	Choose opion 4
ent of India Act, 1919 was also known as:	
ey-Minto Report	
u Report	
say Macdonald Award	
tague-Chelmsford Report	
and a familiar an inspection	
	Question ID: 8161614299
	Status : Answered
	Chosen Option : 4
will the 'Vikram Sarabhai Children Innovationarashtra	Chosen Option : 4
arashtra ia ataka	Chosen Option : 4
arashtra la ataka	Chosen Option : 4
arashtra la ataka	Chosen Option : 4
arashtra la ataka	Chosen Option : 4 on Centre' be set up? Question ID : 8161614262 Status : Answered
arashtra a ataka	Chosen Option : 4 on Centre' be set up? Question ID : 8161614262
arashtra a astaka rat	Question ID : 8161614262 Status : Answered Chosen Option : 4
arashtra a astaka rat	Question ID : 8161614262 Status : Answered Chosen Option : 4
a stake rat y won the highest number of gold medals at	Question ID : 8161614262 Status : Answered Chosen Option : 4
arashtra a staka at won the highest number of gold medals at	Question ID : 8161614262 Status : Answered Chosen Option : 4
a stake at won the highest number of gold medals at apore	Question ID : 8161614262 Status : Answered Chosen Option : 4
atake y won the highest number of gold medals at	Question ID : 8161614262 Status : Answered Chosen Option : 4
atake y won the highest number of gold medals at	Question ID : 8161614262 Status : Answered Chosen Option : 4
atake y won the highest number of gold medals at	Question ID: 8161614262 Status: Answered Chosen Option: 4
arashtra	Question ID : 8161614262 Status : Answered Chosen Option : 4

ne following was the first Law Minister of indep	endent India?
bhi Sitaramayya	
ana Azad	
mbedkar	
at Ali Khan	
	Question ID : 8161614300 Status : Answered
	Chosen Option: 3
ecame the first Lokpal of india?	
der Singh	
hakur	
der Sachchar	
ki Chandra Ghose	
	Transmittening and together story and
	Question ID : 8161614297 Status : Answered
ear	Status : Answered Chosen Option : 4
ear	Status : Answered Chosen Option : 4
ear	Status : Answered Chosen Option : 4
humour is a part of which body organ of human ear	Status : Answered Chosen Option : 4
ear	Status : Answered Chosen Option : 4 beings? Question ID : 8161614278 Status : Answered
ear	Status : Answered Chosen Option : 4 beings? Question ID : 8161614278
part of liver	Question ID : 8161614278 Status : Answered Chosen Option : 2 s appointed the cabinet
part of liver on of NDA to power in Centre last year, who wanvironment, Forest and Climate Change of India	Question ID : 8161614278 Status : Answered Chosen Option : 2 s appointed the cabinet
part of liver on of NDA to power in Centre last year, who wanvironment, Forest and Climate Change of India	Question ID : 8161614278 Status : Answered Chosen Option : 2 s appointed the cabinet
part of liver on of NDA to power in Centre last year, who wanvironment, Forest and Climate Change of India	Question ID : 8161614278 Status : Answered Chosen Option : 2 s appointed the cabinet
part of liver on of NDA to power in Centre last year, who wanvironment, Forest and Climate Change of India	Question ID : 8161614278 Status : Answered Chosen Option : 2 s appointed the cabinet
part of liver on of NDA to power in Centre last year, who wanvironment, Forest and Climate Change of India seh Javadekar archand Gehlot	Question ID : 8161614278 Status : Answered Chosen Option : 2 s appointed the cabinet
part of liver on of NDA to power in Centre last year, who wanvironment, Forest and Climate Change of India seh Javadekar archand Gehlot	Question ID: 8161614278 Status: Answered Chosen Option: 2 s appointed the cabinet a?
ear	Question ID : 8161614278 Status : Answered Chosen Option : 2 s appointed the cabinet

following rivers does NOT originate in India?	
TUD.	
lab	
6	
	The service of the Control of the Co
	Question ID: 8161614288 Status: Answered
	Chosen Option: 4
ainst the Jalianwala Bagh massacre, who retu	urned his title of 'knighthood' to
lana Azad	
atma Gandhi	
PRINTED EARLY TO BE SEEN TO BE SE	
ndranath Tagore	
il Krishna Gokhale	
	Question ID : 8161614293
	Status : Answered
	Chosen Option ; 3
रूर्वी हवाएँ -पूर्वी हवाएँ -पश्चिमी हवाएँ	
र्युर्वी हवाएँ -पूर्वी हवाएँ -पश्चिमी हवाएँ	
र्युर्वी हवाएँ -पूर्वी हवाएँ -पश्चिमी हवाएँ	चिकांश भागों में वर्षा होती है? Question ID : 8161614286
रूर्वी हवाएँ -पूर्वी हवाएँ -पश्चिमी हवाएँ	चिकांश भागों में वर्षा होती है? Question ID : 8161614286 Status : Answered
रूर्वी हवाएँ -पूर्वी हवाएँ -पश्चिमी हवाएँ	चिकांश भागों में वर्षा होती है? Question ID : 8161614286
रूर्वी हवाएँ ⊢पृत्वी हवाएँ न्पश्चिमी हवाएँ नश्चिमी हवाएँ	पिकांश भागों में वर्षा होती है? Question ID : 8161614286 Status : Answered Chosen Option : 2
रूर्वी हवाएँ -पृर्वी हवाएँ वश्चिमी हवाएँ dered as the normal systolic/diastolic blood p	पिकांश भागों में वर्षा होती है? Question ID : 8161614286 Status : Answered Chosen Option : 2
रूर्वी हवाएँ Hपश्चिमी हवाएँ पश्चिमी हवाएँ dered as the normal systolic/diastolic blood p	पिकांश भागों में वर्षा होती है? Question ID : 8161614286 Status : Answered Chosen Option : 2
रूर्वी हवाएँ Hपश्चिमी हवाएँ पश्चिमी हवाएँ dered as the normal systolic/diastolic blood p 80 mm of Hg	पिकांश भागों में वर्षा होती है? Question ID : 8161614286 Status : Answered Chosen Option : 2
रूर्वी हवाएँ Hपश्चिमी हवाएँ मश्चिमी हवाएँ मश्चिमी हवाएँ 80 mm of Hg 150 mm of Hg	पिकांश भागों में वर्षा होती है? Question ID : 8161614286 Status : Answered Chosen Option : 2
रूर्वी हवाएँ Hपश्चिमी हवाएँ मश्चिमी हवाएँ मश्चिमी हवाएँ 80 mm of Hg 150 mm of Hg	पिकांश भागों में वर्षा होती है? Question ID : 8161614286 Status : Answered Chosen Option : 2
रूर्वी हवाएँ Hपश्चिमी हवाएँ मश्चिमी हवाएँ सश्चिमी हवाएँ 80 mm of Hg 150 mm of Hg	Question ID : 8161614286 Status : Answered Chosen Option : 2 Pressure of a human being?
र निम्मलिखित में से किन हवाओं के कारण भारत के अ रूवीं हवाएँ -पूर्वी हवाएँ -पश्चिमी हवाएँ पश्चिमी हवाएँ अठ mm of Hg 150 mm of Hg 80 mm of Hg	Question ID : 8161614286 Status : Answered Chosen Option : 2 pressure of a human being?

n of the following mediums do sound waves travel fa	
ous	
i	
um	
	Question ID: 8161614273 Status: Answered
	Chosen Option: 2
\	
fanas National Park located?	
than	
akhand	
m	
pur	
	Question ID : 8161614291
	Status : Answered Chosen Option : 3
ults of 4th cycle of All India Tiger Estimation - 2018 fia?	Chosen Option ; 3
fia?	Chosen Option ; 3
dia?	Chosen Option ; 3
cults of 4th cycle of All India Tiger Estimation - 2018 dia?	Chosen Option ; 3
dia?	Chosen Option : 3 3, what is the total number Question ID : 8161614259
dia?	Chosen Option : 3 Question ID : 8161614259 Status : Answered
fia?	Chosen Option : 3 3, what is the total number Question ID : 8161614259
Add L	Chosen Option : 3 Question ID : 8161614259 Status : Answered
the following is a non-metal?	Question ID : 8161614259 Status : Answered Chosen Option : 2
the following is a non-metal?	Question ID : 8161614259 Status : Answered Chosen Option : 2
the following is a non-metal?	Question ID : 8161614259 Status : Answered Chosen Option : 2
the following is a non-metal?	Question ID : 8161614259 Status : Answered Chosen Option : 2
the following is a non-metal?	Question ID : 8161614259 Status : Answered Chosen Option : 2
dia?	Question ID : 8161614259 Status : Answered Chosen Option : 2
the following is a non-metal?	Question ID : 8161614259 Status : Answered Chosen Option : 2

founder of Forward Bloc?	
at Singh	
nd Ghosh	
ash Chandra Bose	
ein Mohan Singh	
100	
	Question ID: 8161614292
	Status : Answered Chosen Option : 4
	Chosen option: 4
Securities and Exchange Board of India (SEBI) e	stablished as a non-statutory
l.	
i i	
	Question ID : 8161614266 Status : Answered
	Chosen Option ; 3
of a plant is composed of:	
lose	
protein	
orotein ohydrates	
protein ohydrates	
orotein	Question ID : 8161614272
orotein	Status : Answered
orotein	
orotein ohydrates s	Status : Answered
orotein ohydrates s शांति पुरस्कार किसे प्रदान किया गया?	Status : Answered
orotein ohydrates इ शांति पुरस्कार किसे प्रदान किया गया?	Status : Answered
orotein ohydrates इ शांति पुरस्कार किसे प्रदान किया गया? विन राशिद	Status : Answered
onydrates s शांति पुरस्कार किसे प्रदान किया गया? बिन राशिद अली	Status : Answered
ohydrates s शांति पुरस्कार किसे प्रदान किया गया? इ बिन राशिद अली	Status : Answered
orotein	Status : Answered Chosen Option : 1
ohydrates s शांति पुरस्कार किसे प्रदान किया गया? द बिन राशिद अली	Status : Answered

the following numbers is the new integrated helpline number to address inces of Indian Railways' passengers?

Question ID : 8161614258 Status : Answered

Chosen Option: 2

rest covers the largest area of India?

icaldeciduous forest

ical semi-evergreen forest

e forest

ical evergreen forest

Question ID : 8161614290 Status : Not Answered

Chosen Option: --

stitutional amendment were the words 'socialist', 'secular' and 'integrity' added le of Indian Constitution?

ı

Question ID: 8161614302

Status: Answered

Chosen Option: 3

to Indian banking transactions, what does NEFT stand for?

Electronic Funds Transfer

onal Exchange of Funds Transfer

anal Electronic Funds Transfer

onal Electronic Financial Transfer

Question ID: 8161614265

Status: Answered

dian badminton player to win gold medal in the world badminton 1? a Gutta indhu a Nehwal vini Ponappa Question ID: 8161614304 Status: Answered Chosen Option: 2 र्ता को किसमें परिवर्तित करते हैं? क्रजी ত জন্ম ा कर्जा निक कर्णा Question ID: 8161614271 Status: Answered Chosen Option: 4 nonitor is also known as: Question ID: 8161614256 Status: Not Answered Chosen Option : --ाना जल्दी क्यों पकता है? ही अधिक मात्रा के कारण सीटी द्वारा नियमित अंतरालों पर भाप को निकालने के कारण के व्यवनाय में वृद्धि के कारण के अंदर ही संरक्षित रहने के कारण Question ID: 8161614280 Status: Answered Chosen Option: 1

inium	
sium	
esium	
n	
	Question ID : 8161614269
	Status: Answered
	Chosen Option: 3
loading an operating system into a computer's	Random Access Memory
n preparing the system of users to run applicati called:	ons when the computer is
ng	
ng	
ng	
ting	
	Question ID : 8161614257
	Status : Not Answered Chosen Option :
	Chosen Option :
gineering Civil and Structural diameter 'd' and thickness of wall 't', carries fluid with jarens	ity of pressure 'p'. Hoop stresses in the

following elements has 12 as its atomic number?

yellow and white colour on a milestone indicates:

al road

ijor district road

tional highway

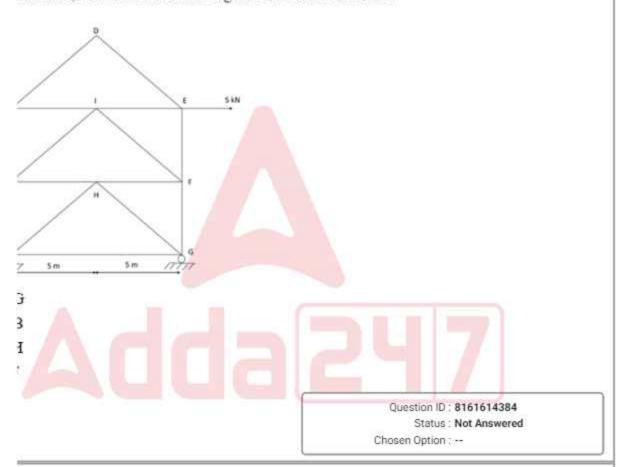
te highway

Question ID: 8161614369

Status: Answered

Chosen Option: 3

en truss, which of the following is a zero force member?



s metal sheets from corrosion, they are dipped in a bath of molten zinc to add a protective layer of it on ocess is called as:

amelling

ectroplating

rkerising

lvanizing

igram is normally divided into three parts. What does the top, middle and bottom part represent? ater, air and solid respectively r, solid and water respectively lid, water and air respectively r, water and solid respectively Question ID: 8161614345 Status: Answered Chosen Option: 4 y Disease in children is due presence of in water. cess carbonates cess chloride cess nitrates cess sulphates Question ID: 8161614377 Status: Answered Chosen Option: 3 nage work in which a canal is provided over the natural drainage is called: ueduct el crossing per-passage nal syphon Question ID: 8161614363 Status: Answered Chosen Option: 1 lowing is true about depth requirement of beam considering deflection control criteria for same span ired for Cantilever beam > Simply supported beam > Continuous beam red for Simply supported beam < Continuous beam > Cantilever beam ired for Simply supported beam > Cantilever beam > Continuous beam

and the Claude managed knew of Charletonic harm of Cantingna harm

s minimum grade of concrete to be used for a reinforced concrete structural element which is exposed ure conditions? 25 20 40 30 Question ID: 8161614389 Status: Answered Chosen Option: 3 ed beam of span 'L' is encrying uniformly distributed load 'w' on the entire span. If uniformly s replaced by a concentrated load "W" at centre such that it produces same deflection at centre. Keeping. ers same, ratio of "W" to "w" will be: Question ID: 8161614382 Status: Answered Chosen Option: 2 ad beam of overall depth 150 mm has neutral axis at 50 mm from extreme top fibre. Permissible in extreme compression and extreme tension fibre are restricted to 15 MPs and 25 MPs respectively. If ram is incremed gradually, then: will be due to stresses in extreme top fibre reaching to maximum permissible compressive stresses will be due to stresses in extreme bottom fibre and extreme top fibre reaching to maximum permissible mus permissible compressive stresses simultaneously n will be due to stresses in extreme top fibre reaching to maximum permissible tensile stresses t will be due to stresses in extreme bottom fibre reaching to maximum permissible tensile stresses Question ID: 8161614383 Status: Not Answered Chosen Option: --

rovided in a rectangular RCC beam of effective depth 500 mm is such that actual depth of neutral axis in extreme compression fibre. Fe 415 steel is used and provided on tension face only. It is a:

lanced section ubly reinforced section er reinforced section der reinforced section

> Question ID : 8161614397 Status : Answered

Chosen Option: 3

number is a ratio of:

vity forces to inertial forces

rtial forces to gravity forces

rtial forces to viscous forces

cous forces to gravity forces

Question ID : 8161614350 Status : Answered

Chosen Option: 2

l of a spillway, the velocity is 2 m/s. What is the corresponding velocity in the prototype?

n/s

n/s

m/s

m/s

Question ID : 8161614354 Status : Answered

Chosen Option: 3

asures the area of figure, traversed clockwise with anchor point inside and tracking with $M=100 \text{ cm}^2$, C=20, initial reading 3.436, final reading 8.945. The zero mark of the dial passed the index once in ion. The area measured was:

14.7 cm²

50.8 cm²

38.16 cm²

50.9 cm²

Question ID: 8161614335

with vertical back retains a mass of cohesion-less soil, surface of which is level with top of the wall. th pressure coefficient (in terms of $^{+}\Phi^{+}$) i.e. angle of internal friction of backfill is given by:

$$\frac{\sin \phi}{\sin \phi}$$
 or $tan^2(45^\circ - \frac{\phi}{2})$

$$\frac{\sin \phi}{\sin \phi}$$
 or $\tan^2(45^\circ + \frac{\phi}{2})$

$$\frac{\sin \phi}{\sin \phi}$$
 or $tan^2(45^{\circ} - \frac{\phi}{2})$

$$\frac{\sin \phi}{\sin \phi}$$
 or $tan^2(45^\circ + \frac{\phi}{2})$

Question ID: 8161614344

Status : Answered

Chosen Option: 1

olt conforming to IS 1367, respective ultimate tensile strength and yield strength will be:

- 0 MPa and 410 MPa
- 0 MPa and 240 MPa
- 0 MPa and 400 MPa
- 0 MPa and 240 MPa

Question ID: 8161614400

Status: Answered

Chosen Option: 2

the following is a reason for negative error in chaining?

g in chain

ain getting out of line due to wrong ranging

ain not being straight

se in temperature

Question ID: 8161614330

Status: Answered

Chosen Option: 4

re height of a cylindrical sample for split tensile strength test of stone, if the diameter is 50 mm?

0 mm

mm

mm

entage of fly ash used in high volume fly ash concrete is:

- 80%

eater than 90%

- 60%

Question ID : 8161614317 Status: Not Answered

Chosen Option : --

net flow, for best efficiency of a rectangular section channel, ratio of bottom width to depth shall be:

Question ID : 8161614351 Status : Answered Chosen Option : 2

pember represented by core test shall be considered acceptable if the average equivalent cube strength to at least _______% of cube strength of the grade of concrete specified for the corresponding age.

Adda

Question ID : 8161614393 Status : Answered

Chosen Option: 4

duration of lease is 99 years, it is called:

se in perpetuity

ig term lease

ort term lease

ermediate term lease

Question ID : 8161614329 Status : Not Answered

ne population by the end of 2011 by the arithr	netical increase method.
ppulation	
000,000	
09,000	
16,000	
28,000	
6,000	
6,000	
6,000	
6,000	
0,000	
	Question ID: 8161614374
	Status : Answered Chosen Option : 2
$446f_{ck}$ and $0.87 f_y$ respectively $4f_{ck}$ and $0.67 f_y$ respectively	ve stresses in concrete and steet as:
$146f_{ck}$ and $0.87 f_y$ respectively $1f_{ck}$ and $0.67 f_y$ respectively $167f_{ck}$ and $167 f_y$ respectively	ive stresses in concrete and steel as:
$446f_{ck}$ and $0.87 f_y$ respectively $4f_{ck}$ and $0.67 f_y$ respectively $67f_{ck}$ and $0.67 f_y$ respectively	ve stresses in concrete and steel as:
$146f_{ck}$ and $0.87 f_y$ respectively $16f_{ck}$ and $167 f_y$ respectively $167f_{ck}$ and $167 f_y$ respectively	Question ID: 8161614396
$146f_{ck}$ and $0.87 f_y$ respectively $16f_{ck}$ and $167 f_y$ respectively $167f_{ck}$ and $167 f_y$ respectively	
$146f_{ck}$ and $0.87 f_y$ respectively $1f_{ck}$ and $0.67 f_y$ respectively $167f_{ck}$ and $167 f_y$ respectively	Question ID : 8161614396 Status : Answered
$446f_{ck}$ and $0.87f_y$ respectively $67f_{ck}$ and $0.67f_y$ respectively $67f_{ck}$ and $0.67f_y$ respectively $646f_{ck}$ and $0.67f_y$ respectively	Question ID : 8161614396 Status : Answered Chosen Option : 4
$446f_{ck}$ and $0.87f_y$ respectively $67f_{ck}$ and $0.67f_y$ respectively $67f_{ck}$ and $0.67f_y$ respectively $646f_{ck}$ and $0.67f_y$ respectively	Question ID : 8161614396 Status : Answered Chosen Option : 4
$446f_{ck}$ and $0.87 f_y$ respectively $4f_{ck}$ and $0.67 f_y$ respectively $46f_{ck}$ and $0.67 f_y$ respectively $46f_{ck}$ and $0.67 f_y$ respectively $46f_{ck}$ and $0.67 f_y$ respectively	Question ID : 8161614396 Status : Answered Chosen Option : 4
$446f_{ck}$ and $0.87 f_y$ respectively $4f_{ck}$ and $0.67 f_y$ respectively $46f_{ck}$ and $0.67 f_y$ respectively $46f_{ck}$ and $0.67 f_y$ respectively following components of ordinary Portland cement is S	Question ID : 8161614396 Status : Answered Chosen Option : 4
$446f_{ck}$ and $0.87 f_y$ respectively $67f_{ck}$ and $0.67 f_y$ respectively $67f_{ck}$ and $0.67 f_y$ respectively $646f_{ck}$ and $0.67 f_y$ respectively following components of ordinary Portland cement is SAF	Question ID : 8161614396 Status : Answered Chosen Option : 4
$446f_{ck}$ and $0.87 f_y$ respectively $67f_{ck}$ and $0.67 f_y$ respectively $67f_{ck}$ and $0.67 f_y$ respectively $646f_{ck}$ and $0.67 f_y$ respectively following components of ordinary Portland cement is SAF	Question ID : 8161614396 Status : Answered Chosen Option : 4
$446f_{ck}$ and $0.87 f_y$ respectively $67f_{ck}$ and $0.67 f_y$ respectively $67f_{ck}$ and $0.67 f_y$ respectively $646f_{ck}$ and $0.67 f_y$ respectively following components of ordinary Portland cement is SAF	Question ID : 8161614396 Status : Answered Chosen Option : 4 responsible for flash setting? Question ID : 8161614313
$146f_{ck}$ and $0.87f_y$ respectively $14f_{ck}$ and $0.67f_y$ respectively $14f_{ck}$ and	Question ID : 8161614396 Status : Answered Chosen Option : 4 responsible for flash setting?

rea of 12 km² is represented by 1.5 cm × 0.5 cm rectangle on a map. The scale of the map is: 12000 16000 1000 400000 Question ID: 8161614334 Status: Answered Chosen Option: 4 the following quantities is NOT measured in square meter? imp proof course af of doors and windows in wood C work for staircase inting on walls and underside of slab Question ID: 8161614321 Status: Answered Chosen Option: 3 f the following is NOT true about PVC pipes? low coefficient of expansion as compared to cast-iron or galvanized-iron pipes ey have no problem of incrustation insulation properties hence the temperature of water passing through such pipes is not effected by th Hazen Williams Constant and it results into adaptation of smaller size of PVC pipes compared to ial materials Question ID: 8161614315 Status: Not Answered Chosen Option : -distance is defined as the: igth of the runway

the roadway a driver can see ahead at any particular time.

al length of road to be traversed

f the following is correct about plywood?

sers in even numbers are glaced one above the other with the direction of grains of successive layers at ch other.

sees in even numbers are placed one above the other with the direction of grains of all layers are same.

neers in odd number are placed one above the other with the direction of grains of all layers are same.

neers in odd numbers are placed one above the other with the direction of grains of successive layers at

Question ID : 8161614311 Status : Answered

Chosen Option: 2

e following constituents is maximum in percentage in a good brick earth?

ide of iron

umina

ica

agnesia

Question ID: 8161614308

Status: Answered Chosen Option: 3

ntity of 2.5 cm thick Damp-Proof Course required for construction of a room of $4 \text{ m} \times 3 \text{ m}$ internal skness of the wall should be 250 mm. Iwo windows 2 m width and 1.5 m height and one door 1.5 m height are to be provided to the room. The height of room should be 4 m.

10⁷ mm³

 $1125 \times 10^4 \text{ cm}^3$

m with width 250 mm and thickness 2.5 cm

175 m² with thickness 2.5 cm

Question ID : 8161614318

Status: Not Answered

Chosen Option: --

of calcium carbonate in lime stone is determined by which of the following tests?

impressive strength test

II test

at test

I vehicles on a 1 km length of lane of a roadway at a given instant. It is

sic traffic capacity

ffic volume

ffic density

actical traffic capacity

Question ID: 8161614367

Status: Answered

Chosen Option: 3

web and " t_{w} " is thickness of web of a plate girder such that $\frac{d}{t_{w}} \le 400 \ \epsilon_{w}$, where $\epsilon_{w} = \sqrt{\frac{250}{f_{\pi}}}$, then:

e transverse stiffeners are needed in addition to end bearing stiffeners

eners, intermediate transverse stiffeners, longitudinal stiffeners at 0.2d from compression face and at seeded

eners, intermediate transverse stiffeners and longitudinal stiffeners at 0.2d from compression face are

ly end bearing stiffeners are needed

Question ID: 8161614404

Status: Not Answered

Chosen Option: --

of water passes through a sedimentation tank which has 300 cubic meter volume per day. The detention is:

iours

iours

75 hours

5 hours

Question ID: 8161614379

Status: Answered

to rooms of internal dimensions 3 m = 4 m and 4 m = 5 m are to be plastered using 1 : 6 cement sand the rooms is 5 m. What is approximate cost of plastering the walls if the rate quoted by a contractor 2 1,000 - per square meter? Consider total two doors of size 1.2 m = 2m and four windows of size 1.5 m shed and they all are in different walls.

he contractor is all inclusive i.e. labour, material, etc.)

6,400

8,300

2,200

,25,500

Question ID : 8161614324 Status : Not Answered

Chosen Option: --

the following statements is correct?

ity of water used beneficially to water delivered to field is called water storage efficiency.

- of water diverted from the reservoir to the water delivered to the field is called water use efficiency.
- of water stored into the root zone of the crop to the quantity of water delivered to the field is called a efficiency.
- of water stored in root zone during irrigation to water needed in root zone before irrigation is called e efficiency.

Question ID : 8161614362 Status : Answered

Chosen Option: 3

mount from the gross rent or income is set aside annually to accumulate the cost of construction when is over is called:

urance

king fund

d debts

pairs fund

Question ID: 8161614328

Status: Answered

f the following is an example of stratified rocks?
neous rock
rned clay brick
dimentary rock
etamorphic rock

Question ID : 8161614306 Status : Answered Chosen Option : 3

the following is true?

etter than a plastic section can only be used as a compression member.

r section shall not be used as a compression member.

ompact section can only be used a compression member.

t or a plastic section can only be used as a compression member.

Question ID : 8161614401 Status : Not Answered

Chosen Option: --

a test, when the load is changed from 50 kN/m² to 100 kN/m², then the void ratio changes from 0.80 to ieur of compressibility will be:

004 m²/kN

002 m²/kN

103 m²/kN

001 m²/kN

Question ID: 8161614343

Status: Answered

ollowing statements are true about quicksand?

only a condition but not a type of sand.

a condition and a type of sand too.

ksand condition reaches when critical hydraulic gradient is approximately equal to unity.

ksand condition occurs more commonly in coarse grained sand or gravels than fine sand,

itements ii, iii and iv are true

oth statements i and iii are true

itements i, iii and iv are true

th statements ii and iii are true

Question ID: 8161614341

Status: Answered

Chosen Option: 3

ater or adding lime in water will remove the hardness of water when it is due to:

loride of calcium

rate of calcium

phate of calcium

bonate of calcium

Question ID: 8161614375

Status: Answered

Chosen Option: 4

f the following is NOT a dechlorinating agent?

dium sulphite

lphur dioxide

dium bisulphite

rbon dioxide

Question ID: 8161614376

Status: Answered

Chosen Option: 4

f the following is NOT a coagulant?

rric chloride

rrous sulphate

dium aluminate

dium sulphate

be used for making airport runway, the aggregate impact value should not be more than:

- % by weight
- % by weight
- % by weight
- % by weight

Question ID : 8161614392 Status : Answered

Chosen Option: 1

oncrete dam against overturning, what must be the width of the dam of rectangular cross section of an height of water storage on one side of it is 9 m? Take unit weight of water as 10 kN/m⁴ and unit ste as 25 kN/m³.

uplift, friction and any other force.)

 $\frac{3}{m}$

 $\frac{\sqrt{3}}{5}$ m

i m

3 m

> Question ID : 8161614352 Status : Not Answered

Chosen Option: --

the following decreases the workability of concrete?

ell graded aggregates

igular aggregates

r entraining admixture

unded aggregates

Question ID: 8161614390

Status: Answered

the following statements is/are true?

Contour lines cross valley line at 90°.

Contour lines cross ridge line at 90°.

Contour lines are widely spaced where ground has steep slope.

oth statements i and iii are true

th statements i and ii are true

th statements ii and iii are true

ily statement i is true

Question ID : 8161614333 Status : Answered

Chosen Option: 2

etween modulus of rupture of concrete and characteristic compressive of concrete is:

$$=0.7\sqrt{f_{ck}}$$

$$=\sqrt{f_{ck}}$$

$$= 0.8 f_{ck}$$

$$= 5000 \sqrt{f_{ck}}$$

Question ID: 8161614388

Status: Answered

Chosen Option: 1

e correct option from the following.

ent book and muster are in the custody of senior clerks in the office.

ak and muster are extremely important and basic documents, and should be in the custody of technical

ent book and muster are just like any other record in the office.

care is required for the custody of the measurement book and muster.

Question ID: 8161614323

Status: Not Answered

lowing expression is used to calculate "Annual depreciation" by straight line method? Where 'O' in 5' is scrape value and 'N' life of structure in years.

- (O×N)
- -S)/N
- (S × N)
- +S)/N

Question ID: 8161614326

Status: Answered

Chosen Option: 2

pairs.

Column - A	Column - B
Original cost of property minus the depreciation amount up to the previous year.	a. Salvage value
Due to fear of war or riot property cannot fetch full market value.	b. Distress value
The value of property building at the end of its utility period without being dismantled.	c. Book value

$$b, ii - a, iii - c$$

247

Question ID : 8161614327 Status : Answered Chosen Option : 2

S 191

nnual rings surrounding the central portion or core of a tree is ______.

edullary rays

h

) wood

maximum limit of super elevation as recommended by IRC on hilly roads?

Question ID : 8161614366 Status : Answered

Chosen Option: 2

following is a method used in a field to determine the permeability of soil?

mping out of well method

dometer test

00

nstant head permeameter method

lling head permeameter method

Question ID : 8161614342 Status : Answered

Chosen Option: 1

6 m and 298 m are measured from tacheometer instrument and corresponding staff intercepts are 2 m rely. Additive constant will be:

Question ID: 8161614336

Status: Answered

Chosen Option: 4

of water below the bottom of the lowest sluice way in a reservoir is called:

e storage

eful storage

charge storage

ad storage

Question ID: 8161614364

Status: Answered

the following is a plantation type of crop?

ound nut
a
garcane
dder

Question ID : 8161614358 Status : Not Answered

Chosen Option: --

ed as signal for stop as it is visible from greater distances than other colours because of its:
elength and low frequency compared to any other colour on visible spectrum
elength and low frequency compared to any other colour on visible spectrum
elength and low frequency compared to any other colour on visible spectrum
elength and high frequency compared to any other colour on visible spectrum

Question ID: 8161614372 Status: Answered Chosen Option: 3

numeters unchanged for a compression member in steel, which backling class section carries maximum a stresses comparatively?



Question ID: 8161614403 Status: Not Answered Chosen Option: --

stity of brick masonry required for construction of a room of 4 m \times 3 m internal dimensions. Thickness 250 mm. Two windows of 2 m \times 1.5 m and one door of 1.5 m \times 2.2 m is to be provided to the room op of plinth beam and bottom of tileb beam should be 4 m.

120 m³

.675 m³

918 m³

4

ea of tension reinforcement in a rectangular beam shall not i 'd' is effective depth.	exceed, where 'b' is width, 'D' is
12bd	
ł bd	
$\overline{37f_y}$	
$\frac{35f_y}{d}$	
% bD	
	Question ID : 8161614395 Status: Answered Chosen Option: 4
ristian Otto Mohr arl von Terzaghi	nics?
ristian Otto Mohr arl von Terzaghi illiam John Macquorn Rankine	Question ID : 8161614346 Status : Answered
nown as the father of soil mechan ristian Otto Mohr orl von Terzaghi illiam John Macquorn Rankine enry PG Darcy	Question ID : 8161614346
ristian Otto Mohr irl von Terzaghi illiam John Macquorn Rankine	Question ID : 8161614346 Status : Answered Chosen Option : 2

e identical in all parameters except end conditions. Arrange them in their ascending order of load

y.

ends are hinged

ends are fixed

nd is fixed and the other end is free

nd is fixed and the other end is hinged

iv, i, iii

i. iv. ii

v. iii, ii

i, iii, iv

Question ID: 8161614385

Status: Answered

Chosen Option: 1

velocity field is given by V = 2x3i + 6x2yj:

w is three dimensional

w is physically possible and irrotational

w is physically not possible

w is physically possible and rotational

Question ID: 8161614353

Status: Answered

Chosen Option: 2

magnetic needle at equator and pole is respectively:

2 and 78°

and 90°

o and 00

° and 12°

Question ID: 8161614331

Status: Answered

Chosen Option: 2

rgy a fall is provided in a canal. A fall which has gradual convex and concave curves for smooth ter and to reduce disturbance and impact is a:

pped fall

pid fall

tch fall

m^2 m^2 m^2	
	Question ID : 8161614319 Status: Not Answered Chosen Option:
Howable speed of a vehicle is 20 m s and can accelerate at 0.25 m s 2 , the and length of transition curve such that extic of contribugal force on vehicle m , 200 m.	
0 m, 500 m	
0 m, 320 m	
0 m, 160 m	
	Question ID : 8161614337 Status : Answered
	Chosen Option : 4
mm or four times the size of weld mm or four times the size of weld times the size of weld	
mm or four times the size of weld mm or four times the size of weld times the size of weld 0 mm or 12 times the size of weld	Question ID : 8161614405 Status : Answered Chosen Option : 2
mm or four times the size of weld mm or four times the size of weld times the size of weld mm or 12 times the size of weld dius of a circular curve for railway of chord length 30 m, where the	Question ID : 8161614405 Status : Answered Chosen Option : 2
mm or four times the size of weld mm or four times the size of weld times the size of weld mm or 12 times the size of weld mm or 12 times the size of weld mm or 12 times the size of weld	Question ID : 8161614405 Status : Answered Chosen Option : 2
mm or four times the size of weld mm or four times the size of weld times the size of weld mm or 12 times the size of weld mm or 12 times the size of weld on mm or 12 times the size of weld mm or 12 times the size of weld	Question ID : 8161614405 Status : Answered Chosen Option : 2
mm or four times the size of weld mm or four times the size of weld times the size of weld	Question ID : 8161614405 Status : Answered Chosen Option : 2

mpaction increases the frictional characteristics of soil.

mpaction increases the permeability of soil.

mpaction increases shear and bearing strength of soil.

mpaction decreases the tendency for settlement of soil.

Question ID: 8161614347 Status: Answered Chosen Option: 2

ving in the opposite direction with speeds 25 m/s and 20 m/s respectively. If total reaction time is 2.5 gn coefficient of friction is 0.35, then what anist be the minimum sight distance to avoid head on $g = 10 \text{ m/s}^2$.)

8.93 m

2.5 m

5 m

.07 m

Question ID : 8161614370 Status : Answered

Chosen Option: 3

of diameter 1 m when running full, the hydraulic mean depth will be:

15 m

15 m

m

m

Question ID : 8161614349 Status : Answered

Chosen Option: 2

allowing systems of water distribution, water can reach a particular point only through one route and pairs at a point in the pipe line will completely stop the water supply in the area being fed by that pipe of damage or repairs?

ng system

ad-end system

dial system

id iron system

Ougstion ID - 9161614391

the following is a positive displacement pump?

opeller pump

ntrifugal pump

pump

ciprocating pump

Question ID: 8161614356 Status: Answered Chosen Option: 4

ral element in steel structure, which of the following is a limit state of strength?

flection

ırability

e

rsion

Question ID: 8161614402 Status: Answered Chosen Option: 4

I absorption capacity of a reservoir is:

storage between FSL and MWL

- water it can absorb through seepage
- same as the dead storage

me percentage of the storage capacity of dam

Question ID : 8161614359 Status : Answered Chosen Option : 1

Howing curves fulfils the requirements of an ideal transition curve in horizontal alignment of the ich curves radius is inversely proportional to the length and centrifugal acceleration is uniform eight?

bic parabolic curve

iral curve

ie curve

rcular curve

Question ID: 8161614371

vater is added in cement mortar to determine compressive strength of cement?

percent of total mass of cement and sand, where P is water required for standard consistency

times the mass of cement

18 times the mass of cement mortar

) percent of total mass of cement and sand, where P is water required for standard consistency

Question ID : 8161614310 Status : Answered Chosen Option : 4

ater content at which soil tends to pass from semi-solid state to the solid state is called:

uration limit

uid limit

istic limit

inkage limit

Question ID : 8161614340 Status: Answered

Chosen Option: 4

he following statements are true about laminar flow through pipes?

Fluid particles move along straight parallel path in layers.

Path of the individual particle crosses path of neighbouring particles.

Reynold's number is less than 2000.

Reynold's number is more than 4000.

oth statements i and iii are true oth statements i and iv are true oth statements ii and iv are true oth statements ii and iii are true a[24]7

Question ID : 8161614355 Status : Answered

Chosen Option: 1

ig error in the bearing for a 5 sided traverse, then what will be the correction in the bearing of 5th line?

! e

ie

protion of a structure is ₹4,00,000. The estimated life of the structure is 50 years. At the end of its life value is 10 % of cost of construction. Counidering depreciation at constant rate, what will be the value fler 25 years (excluding scrap value)?

,60,000

,20,000

,80,000

,00,000

Question ID: 8161614325 Status: Not Answered

Chosen Option: --

one-way continuous slab, maximum bending moment will be at:

erior support other than next to end support

upport next to end support

d support

d of end span

Question ID: 8161614399

Status: Answered

Chosen Option: 4

dam means:

s due to water, wave, uplift, etc. are resisted by the weight of the dam

am constructed using stone masonry

am constructed using earth

am constructed using concrete

Question ID: 8161614361

Status: Answered

Chosen Option: 1

2000, a column is said to be a short column if ratio of effective length to corresponding lateral

ore than 12

s than or equal to 3

s than 12

ore than 12 but less than 80

gation supplied as per crop requirement throughout the crop period/year is called: rennial irrigation undation irrigation p irrigation irrigation Question ID: 8161614357 Status: Answered Chosen Option: 1 ific gravity of cement is generally about: 15 5 Question ID: 8161614391 Status: Answered Chosen Option: 2 ne following is NOT a method of analysis of indeterminate structures? pe deflection method oment distribution method ffness method njugate beam method Question ID: 8161614387 Status: Answered Chosen Option: 4 int is applied in three coats, the first coat is known as: ishing coat pping der coat ming coat Question ID: 8161614314 Status: Answered Chosen Ontion : 4

eeds 3 currec of water for irrigating 5100 hectares land up to 10 cm depth. Total 12 watering at an ys are needed. Duty and delta (in hectare/cumee and cm respectively) will be: 300, 0.12 000, 1200 00, 120 0, 1.2 Question ID: 8161614360 Status: Not Answered Chosen Option: -aring of a line AB is 40° 15', then what will be the fore bearing of line BA? 0° 15" ° 15' 9° 45' 0° 15' Question ID: 8161614332 Status: Answered Chosen Option: 4 B, how much solid waste is generated per capita per day in large cities? 3 kg kg kg kg to 0.4 kg Question ID: 8161614380 Status: Not Answered Chosen Option: -ff reading is 2.5 m, on a staff which was improperly held at a station such that its slope was 20 : 1. The ing will be: 3 m $\frac{0}{01}$ m m 1 99 m

of span 'L', carrying uniformly distributed load 'w' on the entire span, the bending moment at the mid

 $\frac{3^2}{2}$ hogging

²/₋ sagging

 $\frac{1^2}{2}$ sagging

;² sagging

> Question ID : 8161614386 Status : Answered



Junior Engineer Civil Mechanical Electrical and Quantity Surveying and Contract Examination 2019

Exam Date	30/10/2020	
Exam Time	10:00 AM - 12:00 PM	
Subject	Junior Engineer 2019 Civil	

Section: General Intelligence and Reasoning

Q.1 Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

- · Some monkeys are bottles.
- · All the bottles are pigs.

Conclusions:

I. All the pigs are bottles.

II. All monkeys are pigs.

Ans

- X 1. Only conclusion II follows.
- X 2 Only conclusion I follows.
- X 3 Both conclusions I and II follow.
- Neither conclusion I nor II follow.

Question ID: 654978223

Status Answered

Chosen Option : 4

Q.2 Choose the pair that best represents a similar relationship to the one expressed in the original pair of words.

Qatar : Doha

Ans

X 1. Japan : Manila

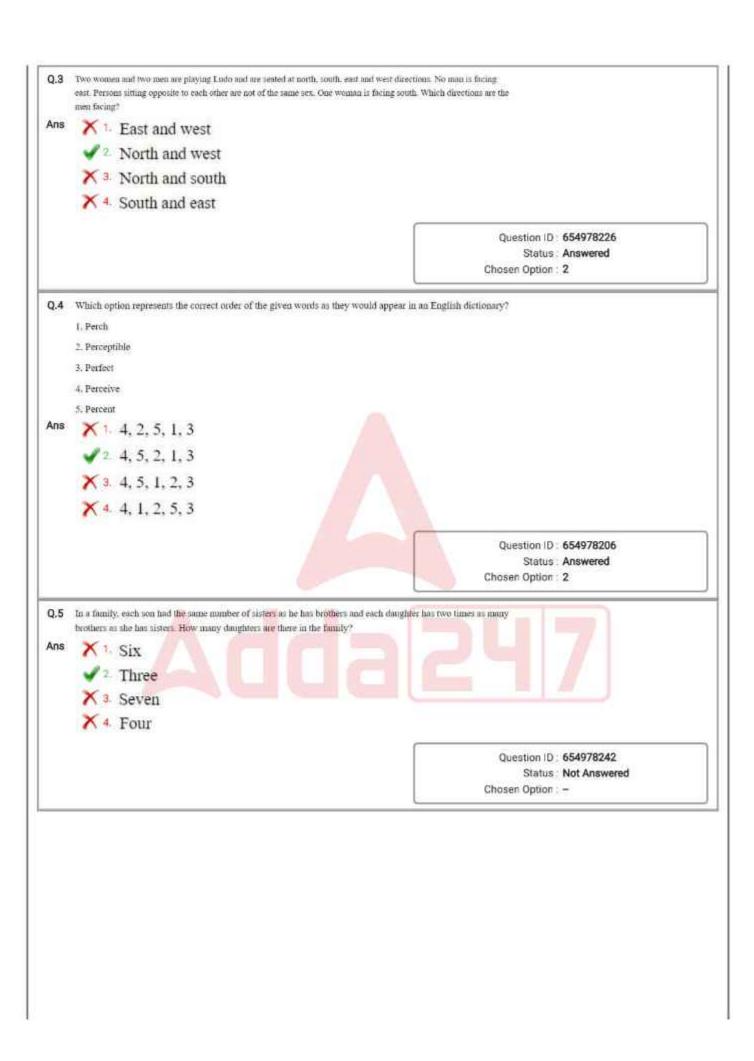
X 2 Kabul : Nepal

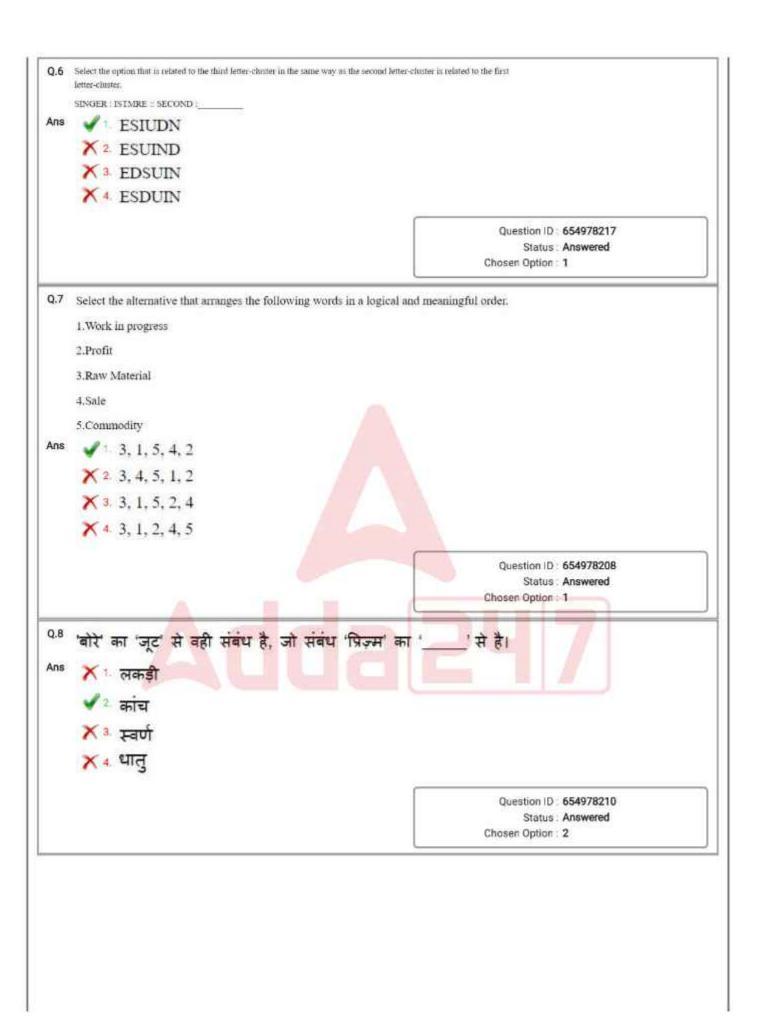
✓ 3. Jordan : Amman

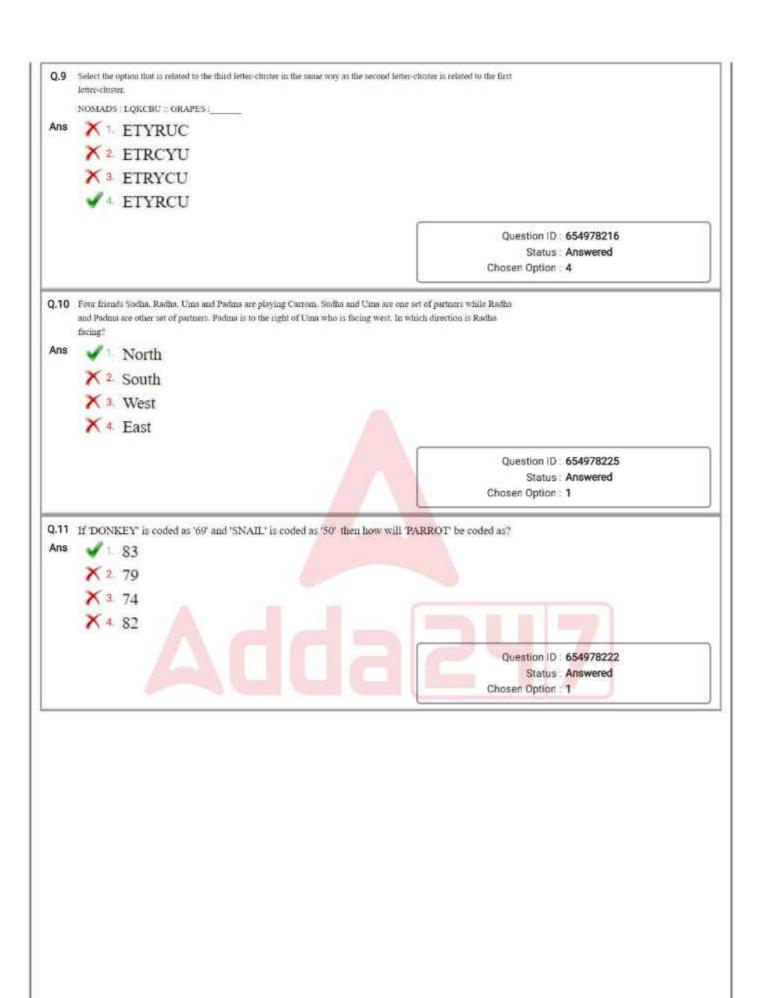
X 4. Colombo : Syria

Question ID: 654978213

Status: Answered





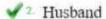


Q.12 Read the following information and answer the question that follows.

- F + D means 'F is the father of D'
- F D means 'F is the husband of D'
- F × D means 'F is the daughter of D'
- . F + D means 'F is the sister of D'

If $Y + S + Q \times R \times K - Z$, then how is Y related to R?

Ans X 1 Son



X 3. Uncle

X 4 Brother

Question ID: 654978228 Status: Answered Chosen Option : 2

Q.13 In a code language, 'CUSTOMER' is written as 'XOHNLGVL' and 'GRASS' is written as 'TLZMH'. How will 'STUDIES' be written as in the same language?

Ans

1 HNXRFYH

2 HNXRRYH

3. HNNXRFY

HNFXRYH

Question ID: 654978220 Status: Answered Chosen Option: 4

- Q.14 Select the alternative that arranges the following words in a logical and meaningful order,
 - 1. Muscat
 - 2. Royal Opera House
 - 3. World
 - 4. Oman
 - 5. Asia

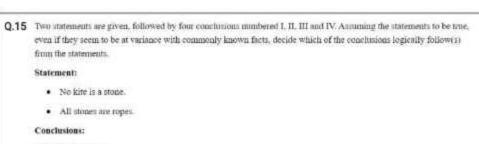
Ans X 1. 3, 2, 4, 1, 5

X 2. 3, 4, 5, 1, 2

√ 3. 3, 5, 4, 1, 2

X 4. 3, 5, 1, 4, 2

Question ID: 654978209 Status: Answered



- I. No kite is a rope.
- II. No rope in a kite.
- III. Some ropes are stones.
- IV. All ropes are stones.

Ans

- N 1. Both conclusions I and II follow
- ✓ 2 Only conclusion III follows
- 3 Both conclusions I and IV follow
- X 4 Only conclusion I follows

Question ID: 654978224 Status: Answered Chosen Option: 2

Q.16 Select the set in which the numbers are related in the same way as the numbers of the following set.

(9, 34, 72)

- Ans X 1. (7, 18, 28)
 - X 2. (14, 60, 128)
 - X 3. (22, 40, 68)
 - 4 (23, 90, 184)

Question ID: 654978237 Status: Not Answered

Chosen Option: -

Q.17 Which letter from the options will replace the question mark (?) in the following series?

F, L, H, N, J, P, L, ?

- Ans X 1. Q
 - X 2. V

Question ID: 654978201 Status: Answered

Q.18 At the end of a munic concert, the 15 singers present all shake hands with each other once. How many bandshakes will be exchanged in total?



X 2. 125

X 3. 90

X 4 120

Question ID: 654978241 Status: Not Answered

Chosen Option: -

Q.19 Select the option in which the two words are related in the same way as are the two words in the given word-pair.

US dollars : USA

Ans

X 1. Peru : Peso

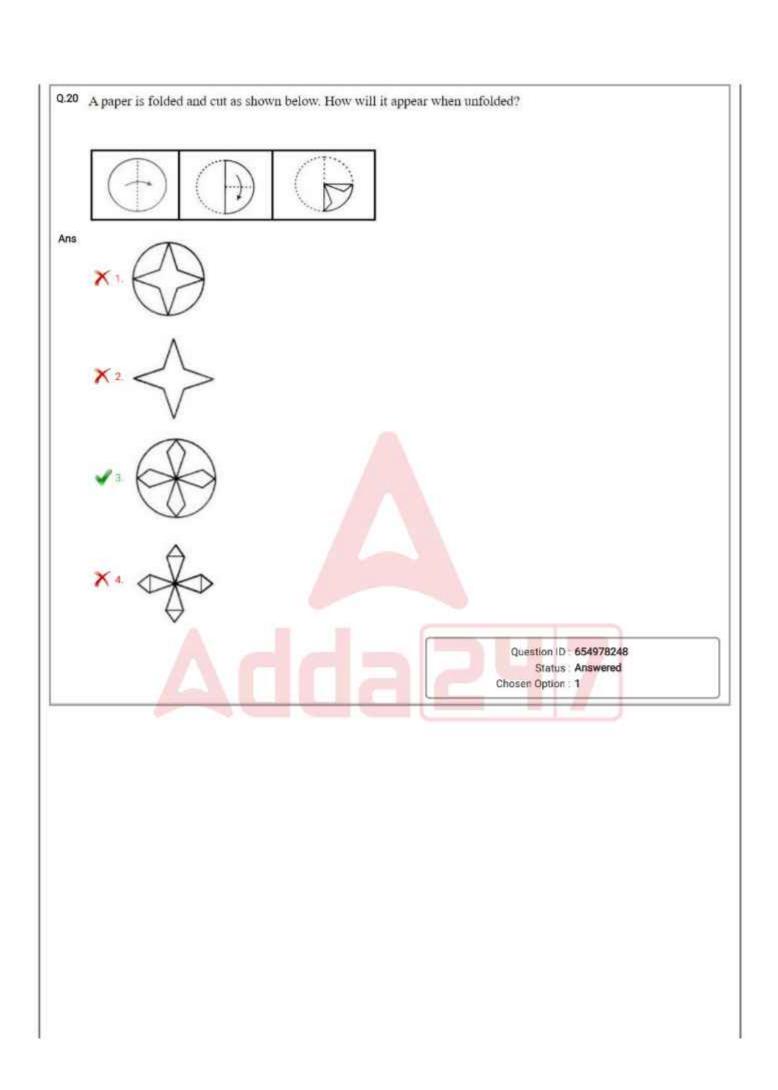
X 2 Dinar : Iran 🖋 3 Dinar : Iraq

X 4 Equdi : Ecuador

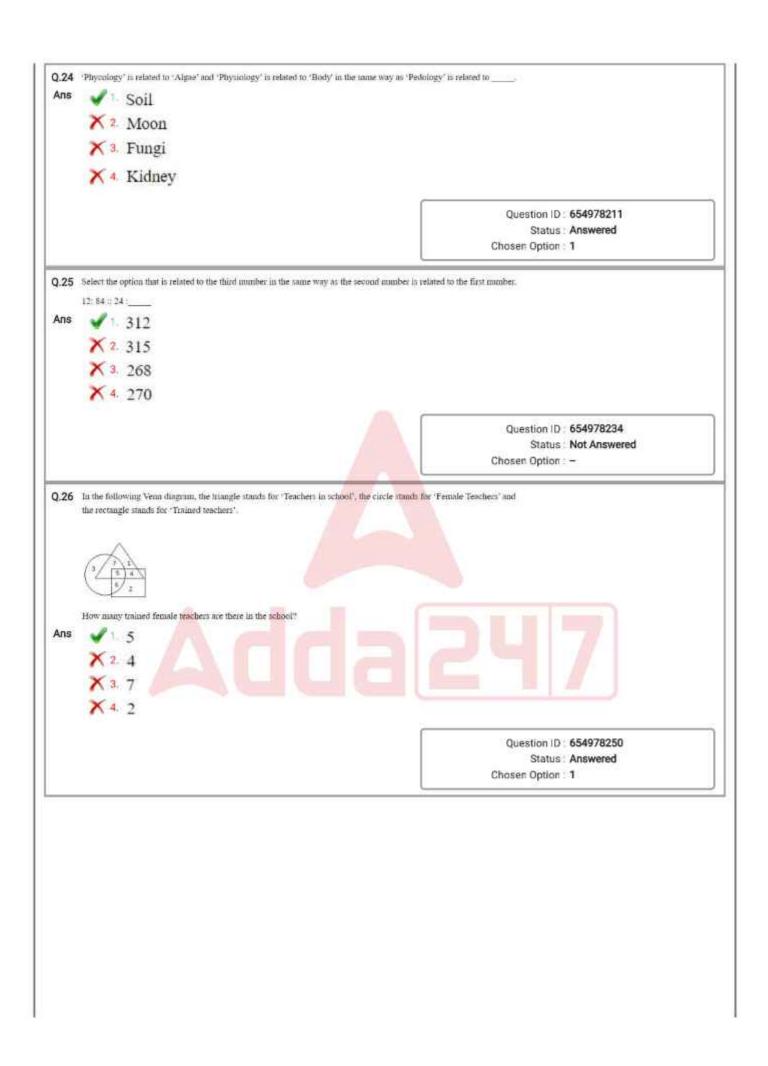
Question ID: 654978215

Status: Answered





Q.21 Select the Venn diagram that best illustrates the relationship between the following classes: Rabbits, Pet Animals and Animals Ans Question ID: 654978249 Status: Answered Chosen Option : 2 Q.22 'Boxing' is related to 'Ring' and 'Wrestling' is related to 'Arena' in the same way as 'Skating' is related to _____. X 1. Court X 2 Track √ 3 Rink X 4 Stadium Question ID: 654978212 Status: Answered Chosen Option: 3 Q.23 Which number from the options will replace the question mark (?) in the following series? 7, 11, 35, 67, 203,? Ans X 1. 611 X 2. 409 X 3 608 4 403 Question ID: 654978231 Status: Not Answered Chosen Option: -



Q.27 Select the number-pair in which the two numbers are related in the same way as the two numbers of the following mumber-pair.

7:559

Ans

X 1. 11:786

X 2 9:593

√3. 3:35

X 4 5:89

Question ID: 654978236 Status Not Answered

Chosen Option: -

Q.28 Which letter-cluster from the options will replace the question mark (7) to complete the given series?

CARDS, ZARDS, ZERDS, ZEODS, ZEOHS, ?

Ans V ZEOHP

X 2. ZERDP

X 3. ZEODP

X 4 ZERHP

Question ID: 654978205 Status: Answered

Chosen Option: 1

Q.29 Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.

CAPITALAMOUNT

Ans

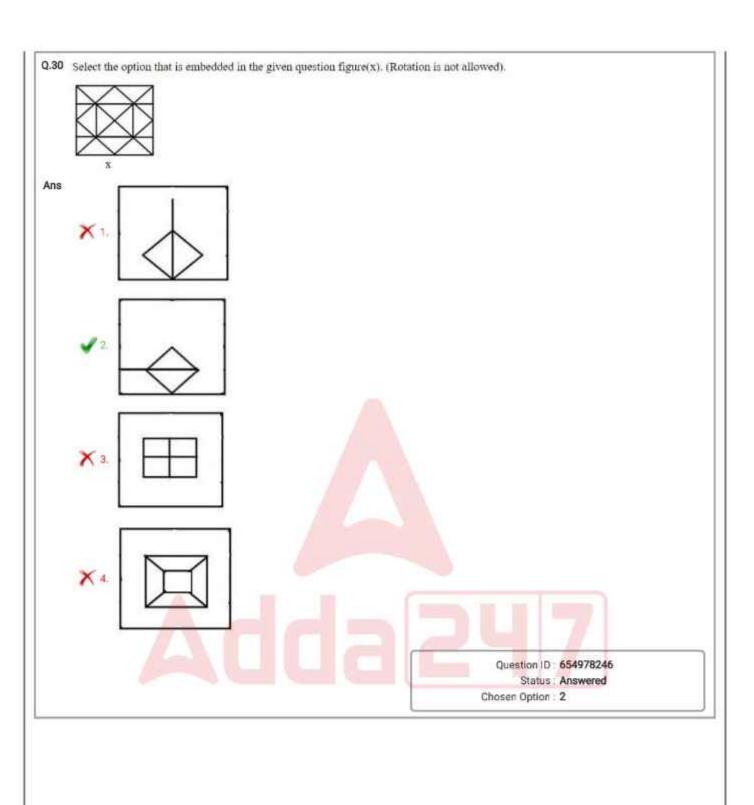
X : CAPITALAMOUNT

CAPITALAMOUNT 1

CAPITALAMUONT EX

X CAPITALAMUONT

Question ID: 654978247 Status: Answered



Q.31 Select the option in which the given figure (x) is embedded (Rotation is not allowed). Ans Question ID: 654978244 Status: Answered Chosen Option: 4 Q.32 If TRAIN is coded as '24638' and 'GROW is coded as '7491' then how will 'RING' be coded as? X 1. 4897 Ans X 2. 4932 **√**3 4387 X 4 4613 Question ID: 654978221 Status: Answered Chosen Option: 3

Q.33 विकल्पों में से उस शब्द-युरम का पयन करें, जिसमें शब्द सर्वोत्तम दंग से बही संबंध दर्शाते हैं जो संबंध मूल शब्द-युग्म के शब्द दर्शते हैं। जहाज : जहाजों का बेडा Ans Xा बंजारे : भीड 🖋 🏿 लकड़बरघे : झुँड 🗙 ३ शिष्य : गिरोह 🗡 4 गायक/गायिकाएँ : बैंड Question ID: 654978214 Status: Answered Chosen Option: 2 Q.34 Select the option that is related to the fourth number in the same way as the first number is related to the second number. 1292 | 5 : _ : 6 Ans X 1 1280 √ 2. 2387 X 3. 2385 X 4. 1282 Question ID: 654978235 Status: Not Answered

Q.35 Seven students Praneeth, Ankit, Rajeev, Sorochi, Tarun. Usha and Vithiko are sitting around a circular table facing towards the centre.

- 1) Taron is the neighbour of Praneeth and Suruchi.
- 2) Vithika is not between Usha and Rajeev.
- 3) Usha is to the immediate right of Praneeth.
- 4) Ankit is to the second right of Praneeth.

What is Rajeev's position?

Ans

Second to the right of Usha.

× 2. Third to the right of Vithika.

X 3. Third to the left of Praneeth.

X 4 To the immediate right of Tarun.

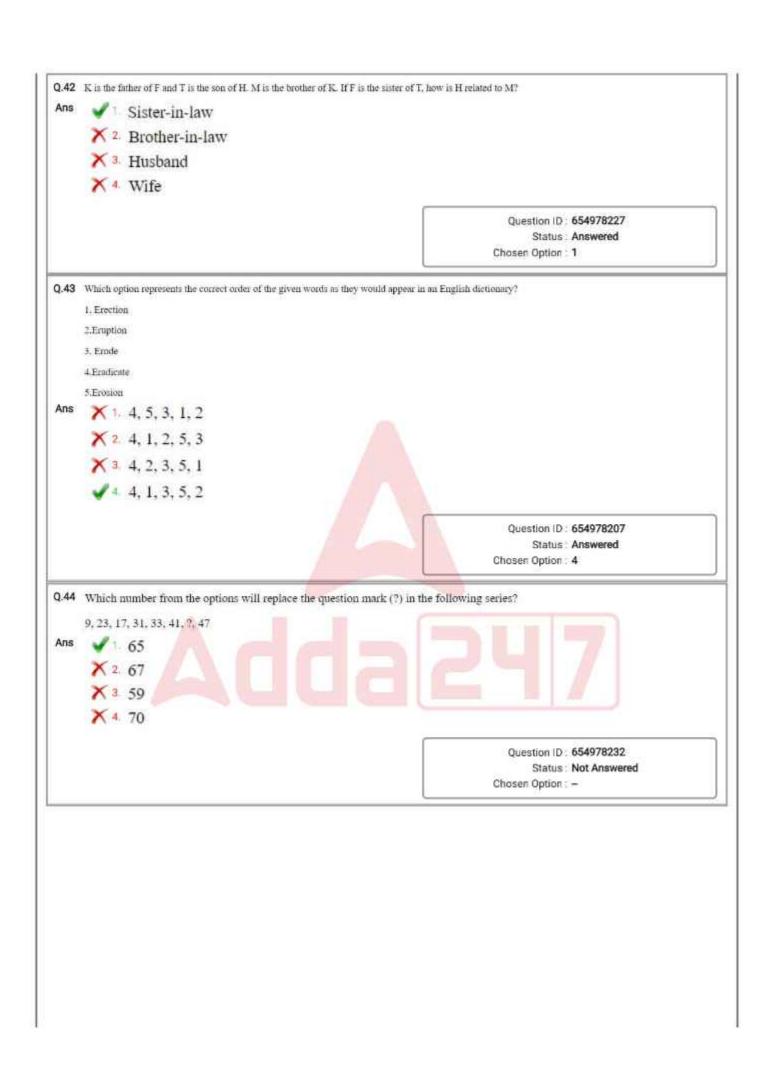
Question ID: 654978230

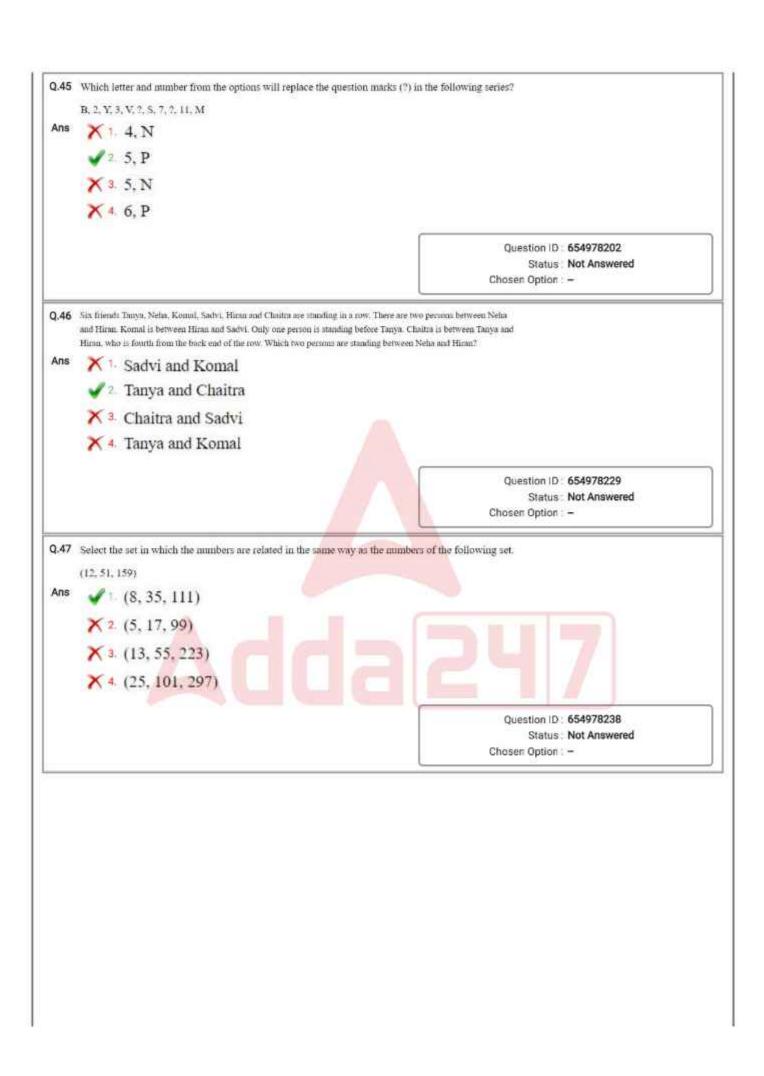
Status: Not Answered

Chosen Option: -

Q.36 Select the option in which the given figure (x) is embedded (Rotation is not allowed). Ans Question ID: 654978245 Status: Answered Chosen Option: 1 Q.37 Select the correct combination of mathematical signs to replace the * signs and to balance the given equation. 30 * 2 * 3 * 6 * 5 = 28 X 1. ÷, +, -, X Ans Question ID: 654978240 Status: Answered Chosen Option: 4

Q.38 Which number from the options will replace the question mark (?) in the following series? 32, 35, 39, 47, 64,? X 1. 80 Ans X 2. 92 X 3. 81 4. 97 Question ID: 654978233 Status: Not Answered Chosen Option: -Q.39 In a code language, 'SCHOOL' is written as 'UXNQJR', How will 'STRING' be written as in the same language?' X 1. UOWKIM X 2. UPXKHM √ 3. UOXKIM X 4. UPWKIM Question ID: 654978219 Status: Answered Chosen Option: 3 Q.40 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first ABLATIVE : UNOZGRPK :: ZYMOTIZE :___ Ans X 1 TGLRTENK √ 2. TENLGRTK. X 3 TLGTENRK X 4 TENTLRGK Question ID: 654978218 Status: Answered Chosen Option : 2 Q.41 Which letter-cluster from the options will replace the question mark (?) to complete the given series? GMTW, EKRX, CIPY, ? , YELA Ans ✓ AGNZ X 2 BFOZ X 3. AHMZ X 4 BGNZ Question ID: 654978203 Status: Answered Chosen Option: 1





Q.48	The following figure (x) can be folded to form a cube. Find the letter on the face opposite the face showing the letter B
	[7]



X 2 D

Question ID: 654978243 Status: Answered

Chosen Option: 4

Q.49 Which two signs should be interchanged to make the given equation correct?

$$252 \div 9 + 5 - 32 \times 92 = 200$$

Ans X1 ÷ and X

√ 2 + and X

X 3 - and +

X 4. − and ÷

Question ID: 654978239

Status: Answered

Chosen Option: 2

Q.50 Which letter-cluster from the options will replace the question mark (?) to complete the given series?

KMRD, JPMK, ISHR, HVCY, GYXF, ?

Ans

X 1 EASM

X 2 EARL

✓ 3. FBSM

X 4 FBRL

Question ID: 654978204

Status: Answered

Chosen Option: 3

Section: General Awareness

Q.1 Which of the following colours of a rainbow has the shortest wavelength?

Ans

1. Violet

X 2. Blue

X 3, Indigo

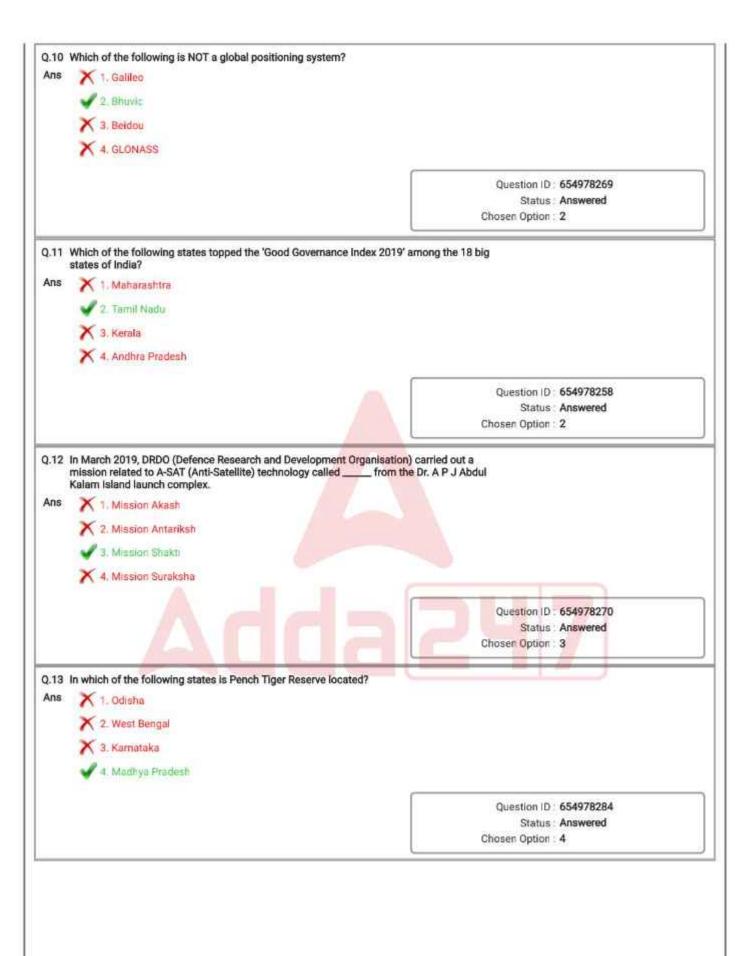
X 4. Red

Question ID: 654978278

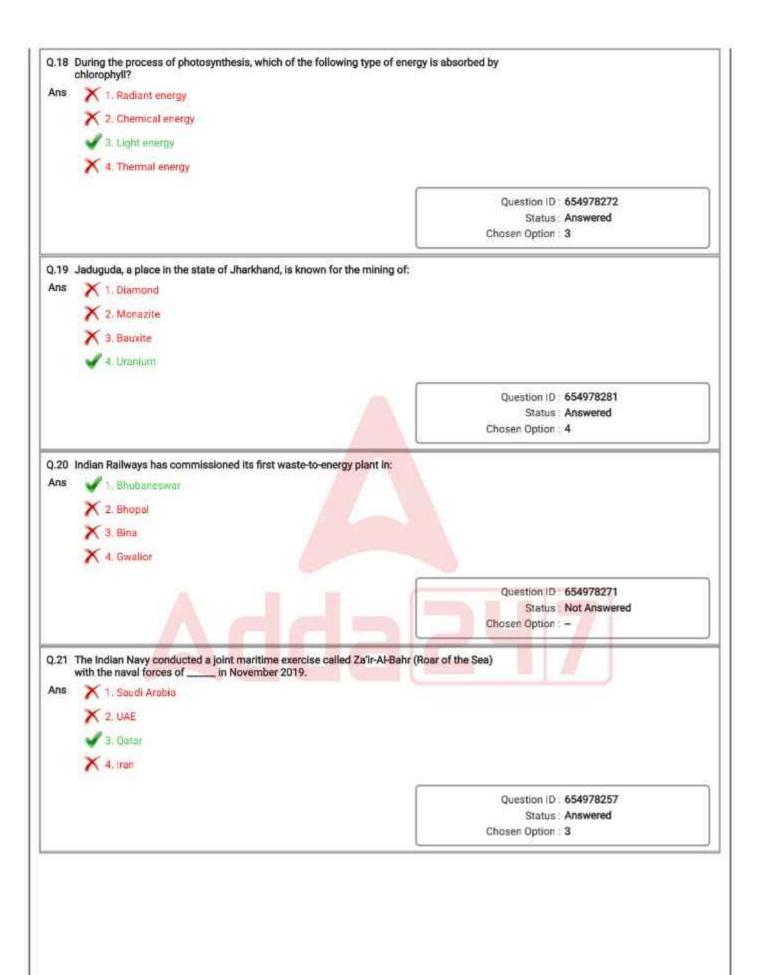
Status: Answered

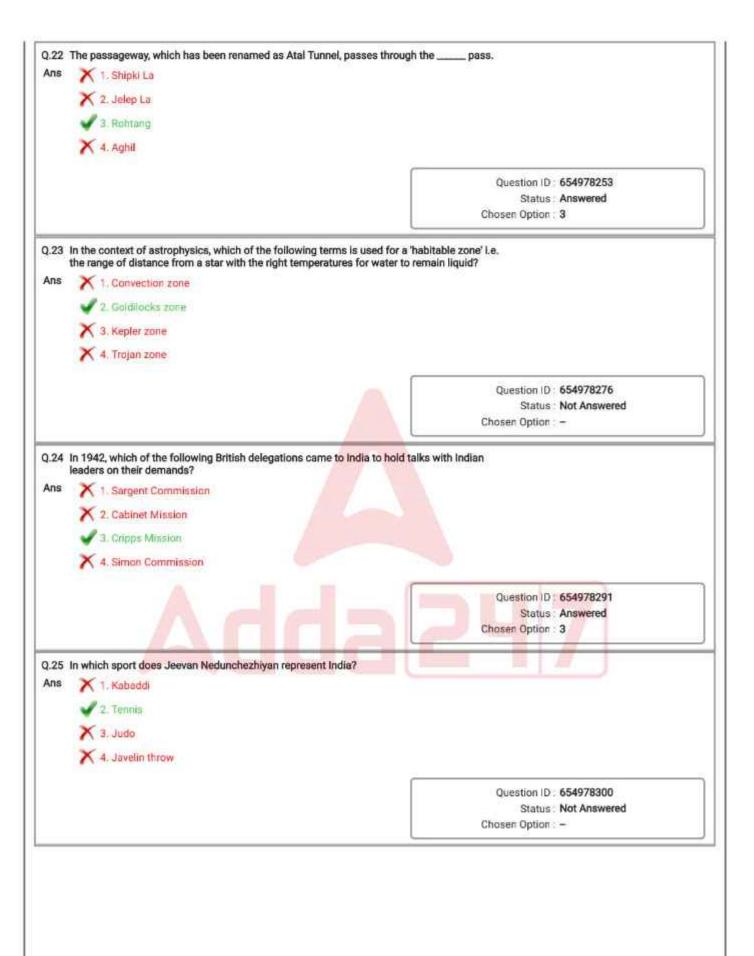
X 4, Ireland	
T, toolward,	
	Question ID: 654978255 Status: Not Answered
	Chosen Option : -
3 In which of the following states is the Inner Line Per	mit NOT operational in India?
ns X 1. Arunachal Pradesh	
2. Sikkim	
X 3. Mizoram	
X 4. Nagaland	
	Question ID: 654978297
	Status: Not Answered
	Chosen Option : -
1. Margaret Atwood 2. Chigozie Obioma	Chosen Option : -
1. Margaret Atwood 2. Chigozie Obioma 3. Elif Shafak	Chosen Option : -
1. Margaret Atwood 2. Chigozie Obioma 3. Elif Shafak	Chosen Option : - winners of the *Man Booker Prize 2019'? Question ID : 654978293 Status : Answered
1. Margaret Atwood 2. Chigozie Obioma 3. Elif Shafak	Chosen Option : - winners of the *Man Booker Prize 2019*? Question ID : 654978293
2. Chigozie Obioma 3. Elif Shafak 4. Salman Rushdie Among the following taxes, which one is NOT a Direction	Question ID: 654978293 Status: Answered Chosen Option: 1
1. Margaret Atwood 2. Chigozie Obioma 3. Elif Shafak 4. Salman Rushdie 5. Among the following taxes, which one is NOT a Directors 1. Goods and Services Tax	Question ID: 654978293 Status: Answered Chosen Option: 1
1. Marparel Atwood 2. Chigozie Obioma 3. Elif Shafak 4. Salman Rushdie 4. Salman Rushdie 1. Goods and Services Tax 2. Income Tax	Question ID: 654978293 Status: Answered Chosen Option: 1
2. Chigozie Obioma 3. Elif Shafak 4. Salman Rushdie 5. Among the following taxes, which one is NOT a Directors 1. Goods and Services Tax 2. Income Tax 3. Minimum Alternate Tax	Question ID: 654978293 Status: Answered Chosen Option: 1
2. Chigozie Obioma 3. Elif Shafak 4. Salman Rushdie Among the following taxes, which one is NOT a Director 1. Goods and Services Tax 2. Income Tax	Question ID: 654978293 Status: Answered Chosen Option: 1
1. Marparel Atwood 2. Chigozie Obioma 3. Elif Shafak 4. Salman Rushdie 5. Among the following taxes, which one is NOT a Director of the following taxes of t	Question ID: 654978293 Status: Answered Chosen Option: 1 Ct Tax in India?
1. Marparel Atwood 2. Chigozie Obioma 3. Elif Shafak 4. Salman Rushdie 5 Among the following taxes, which one is NOT a Direction of the following taxes and Services Tax 2. Income Tax 3. Minimum Alternate Tax	Question ID: 654978293 Status: Answered Chosen Option: 1

Q.6	Who among the following was named as the 'Junior Fre World Wrestling (UWW) in December 2019?	
Ans	1. Deepak Punia	
	X 2. Gourav Ballan	
	X 3, Karan Mor	
	X 4. Veer Dev Gulia	
		Question ID: 654978299
		Status: Not Answered Chosen Option: -
		citosei opitor -
Q.7	In which of the following states is Hazira port located?	
Ans	X 1. Maharashtra	
	2. Andhra Pradesh	
	X 3. Kerala	
	4. Gujarat	
		2
		Question ID : 654978282
		Status : Not Answered
	While working in Microsoft Word 2019, which of the foliothe text to centre? 1. Ctrl + C	Chosen Option: -
	the text to centre?	Chosen Option: -
	the text to centre? 1. Ctrl + C 2. Ctrl + L 3. Ctrl + T	Chosen Option: -
Ans	the text to centre? X 1. Ctrl + C X 2. Ctrl + L X 3. Ctrl + T 4. Ctrl + E	Owing shortcuts may be used to align Question ID: 654978251 Status: Not Answered Chosen Option: —
Ans	the text to centre? 1. Ctrl + C 2. Ctrl + L 3. Ctrl + T 4. Ctrl + E Which of the following stock exchanges has its index na	Owing shortcuts may be used to align Question ID: 654978251 Status: Not Answered Chosen Option: —
Ans	the text to centre? X 1. Ctrl + C X 2. Ctrl + L X 3. Ctrl + T 4. Ctrl + E Which of the following stock exchanges has its index not a stock to the following stock exchanges have a stock to the following stock exchanges have a stock to the stock	Owing shortcuts may be used to align Question ID: 654978251 Status: Not Answered Chosen Option: —
Ans	the text to centre? X 1. Ctrl + C X 2. Ctrl + L X 3. Ctrl + T 4. Ctrl + E Which of the following stock exchanges has its index not a stock exchange Ltd X 1. India Commodity Exchange (BSE)	Owing shortcuts may be used to align Question ID: 654978251 Status: Not Answered Chosen Option: —
Ans	the text to centre? X 1. Ctrl + C X 2. Ctrl + L X 3. Ctrl + T 4. Ctrl + E Which of the following stock exchanges has its index not a stock exchange Ltd 2. Bombay Stock Exchange (BSE) X 3. Calcutta Stock Exchange	Owing shortcuts may be used to align Question ID: 654978251 Status: Not Answered Chosen Option: —
Ans	the text to centre? X 1. Ctrl + C X 2. Ctrl + L X 3. Ctrl + T 4. Ctrl + E Which of the following stock exchanges has its index not a stock exchange Ltd X 1. India Commodity Exchange (BSE)	Owing shortcuts may be used to align Question ID: 654978251 Status: Not Answered Chosen Option: —
Ans	the text to centre? X 1. Ctrl + C X 2. Ctrl + L X 3. Ctrl + T 4. Ctrl + E Which of the following stock exchanges has its index not a stock exchange Ltd 2. Bombay Stock Exchange (BSE) X 3. Calcutta Stock Exchange	Owing shortcuts may be used to align Question ID: 654978251 Status: Not Answered Chosen Option: —
Ans	the text to centre? X 1. Ctrl + C X 2. Ctrl + L X 3. Ctrl + T 4. Ctrl + E Which of the following stock exchanges has its index not a stock exchange Ltd 2. Bombay Stock Exchange (BSE) X 3. Calcutta Stock Exchange	Question ID: 654978251 Status: Not Answered Chosen Option: —

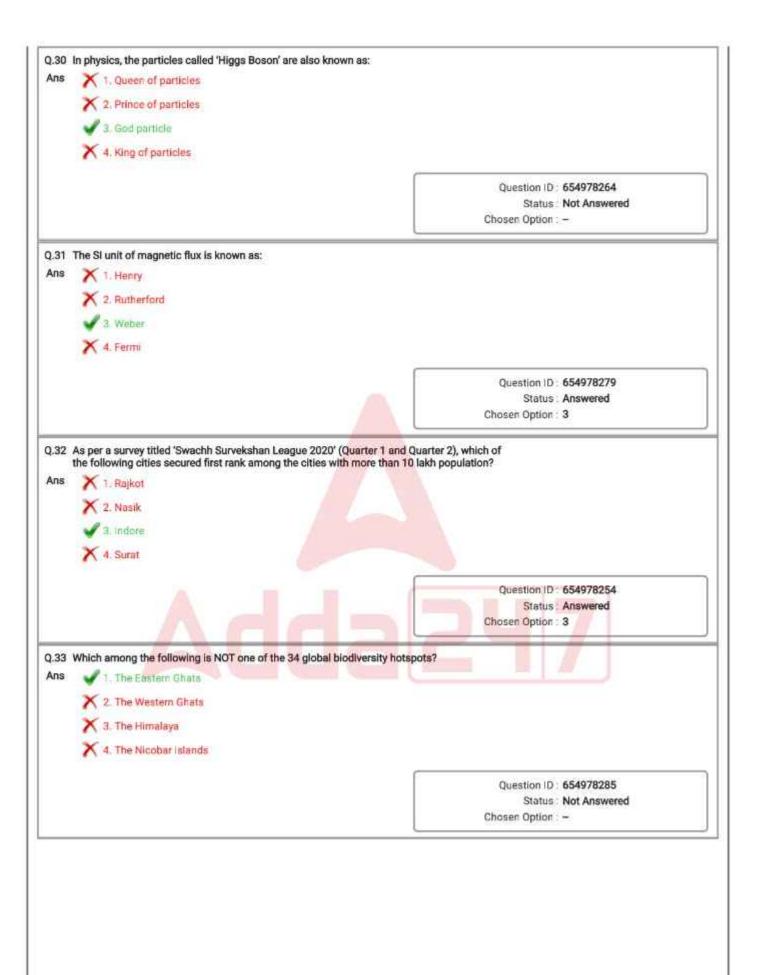


5	n which of the following river systems is Sardar Sarovar Project b 1. Brahmaputra		
	X 2, Godavari		
	3. Narmada		
	The state of the s		
	X 4, Tapti		
		Question ID : 6	554978280
			Answered
		Chosen Option : 8	3
.15 W	hich of the following international agencies has agreed to provid	e 50% of the fund required	
01	ver a period of 5 years (2020-21 to 2024-25) as loan for the Atal B	hujal Yojana?	
ıns	✓ 1. World Bank		
	X 2. Asian Development Bank		
	X 3. International Monetary Fund		
	X 4. New Development Bank		
	And the second s	f	reservation and the second
		Question ID : 6	
			Not Answered
		Status : N Chosen Option : -	
).16 W in Ans	hich of the following political parties is the third largest party in to the current Lok Sabha?	Chosen Option : -	
in	the current Lok Sabha?	erms of elected members Question ID : 6	554978294 Not Answered
in ins	the current Lok Sabha? 1. Biju Janata Dal 2. DMK 3. Communist Party of India 4. Shiv Sena Thich of the following colours is NOT a primary colour?	Chosen Option : - erms of elected members Question ID : 6 Status : 1	554978294 Not Answered
in uns .17 W	the current Lok Sabha? 1. Biju Janata Dal 2. DMK 3. Communist Party of India 4. Shiv Sena Thich of the following colours is NOT a primary colour? 1. Blue	Chosen Option : - erms of elected members Question ID : 6 Status : 1	554978294 Not Answered
in uns .17 W	the current Lok Sabha? 1. Biju Janata Dal 2. DMK 3. Communist Party of India 4. Shiv Sena Ahich of the following colours is NOT a primary colour? 1. Blue 2. Red	Chosen Option : - erms of elected members Question ID : 6 Status : 1	554978294 Not Answered
in uns	the current Lok Sabha? 1. Biju Janata Dal 2. DMK 3. Communist Party of India 4. Shiv Sena Thich of the following colours is NOT a primary colour? 1. Blue	Chosen Option : - erms of elected members Question ID : 6 Status : 1	554978294 Not Answered
in uns .17 W	the current Lok Sabha? 1. Biju Janata Dal 2. DMK 3. Communist Party of India 4. Shiv Sena Ahich of the following colours is NOT a primary colour? 1. Blue 2. Red	Chosen Option : - erms of elected members Question ID : 6 Status : 1	554978294 Not Answered
in uns .17 W	the current Lok Sabha? 1. Biju Janata Dal 2. DMK 3. Communist Party of India 4. Shiv Sena Ahich of the following colours is NOT a primary colour? 1. Blue 2. Red 3. Yellow	Chosen Option : - erms of elected members Question ID : 6 Status : 1	554978294 Not Answered
in Ans 2.17 W Ans	the current Lok Sabha? 1. Biju Janata Dal 2. DMK 3. Communist Party of India 4. Shiv Sena Ahich of the following colours is NOT a primary colour? 1. Blue 2. Red 3. Yellow	Question ID : Qu	554978294 Not Answered
in Ans 1.17 W	the current Lok Sabha? 1. Biju Janata Dal 2. DMK 3. Communist Party of India 4. Shiv Sena Ahich of the following colours is NOT a primary colour? 1. Blue 2. Red 3. Yellow	Question ID : Qu	554978294 Not Answered





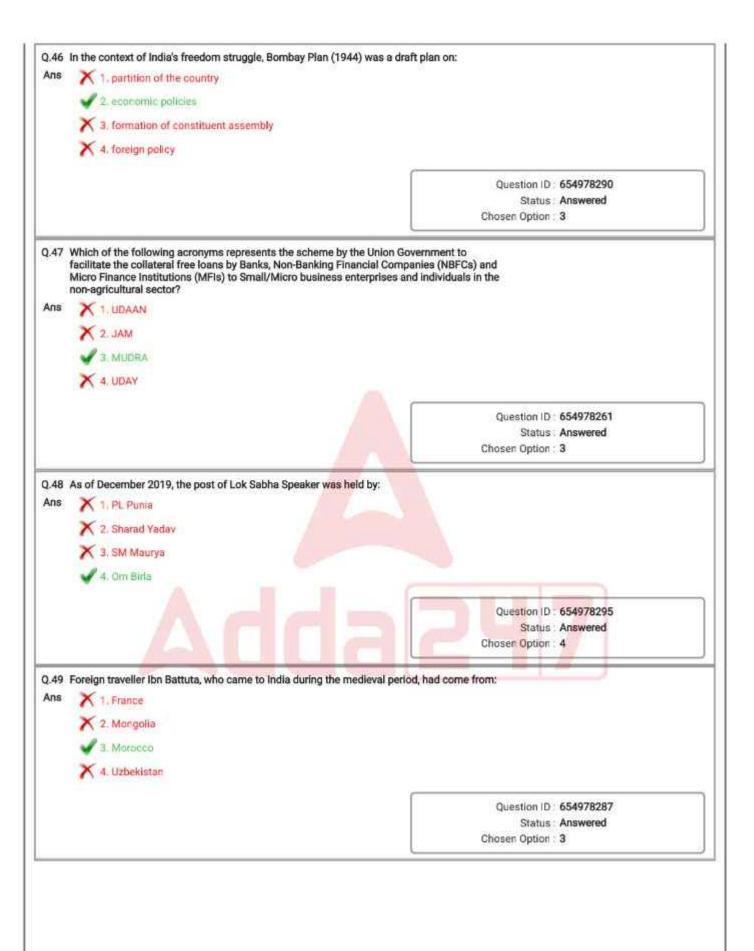
	1. Roche limit 2. Chandrasekhar limit	
	X 3. Rudolf limit	
	The state of the s	
	X 4. Bose limit	
		Question ID: 654978277
		Status: Not Answered
		Chosen Option : -
27	The famous 'dancing-girl' statue of the Harappan Civilization	n was made using material.
S	1. gold	n was made using material.
170		
	2. bronze	
	X 3, stone	
	X 4, terracotta	
		Question ID: 654978288
		Status : Answered
		527775077777777
	✓ 2. R Venkataraman	Chosen Option : 2
.28 .ns	21 years to 18 years? 1. Shankar Dayat Sharma	Chosen Option : 2
	21 years to 18 years? X 1. Shankar Dayal Sharma Z 2. R Venkataraman X 3. Giani Zail Singh	Chosen Option : 2
	21 years to 18 years? X 1. Shankar Dayal Sharma Z 2. R Venkataraman X 3. Giani Zail Singh	Chosen Option : 2 he right to vote was reduced from Question ID : 654978296
	21 years to 18 years? X 1. Shankar Dayal Sharma Z 2. R Venkataraman X 3. Giani Zail Singh	Chosen Option : 2
	21 years to 18 years? X 1. Shankar Dayal Sharma Z 2. R Venkataraman X 3. Giani Zail Singh	Chosen Option : 2 he right to vote was reduced from Question ID : 654978296 Status : Not Answered
ns	21 years to 18 years? X 1. Shankar Dayal Sharma X 2. R Venkataraman X 3. Giani Zail Singh X 4. KR Narayanan Which of the following drugs has been held largely responsil	Chosen Option : 2 Question ID: 654978296 Status: Not Answered Chosen Option: —
29	21 years to 18 years? X 1. Shankar Dayal Sharma Z 2. R Venkataraman X 3. Giani Zail Singh X 4. KR Narayanan Which of the following drugs has been held largely responsil population of vultures from India?	Chosen Option : 2 Question ID: 654978296 Status: Not Answered Chosen Option: —
ns 29	21 years to 18 years? X 1. Shankar Dayal Sharma X 2. R Venkataraman X 3. Giani Zail Singh X 4. KR Narayanan Which of the following drugs has been held largely responsil population of vultures from India? 1. Diclofenac	Chosen Option : 2 Question ID: 654978296 Status: Not Answered Chosen Option: —
ns	21 years to 18 years? X 1. Shankar Dayal Sharma Z 2. R Venkataraman X 3. Grani Zail Singh X 4. KR Narayanan Which of the following drugs has been held largely responsil population of vultures from India? 1. Dictofenac X 2. Tylenol	Chosen Option : 2 Question ID: 654978296 Status: Not Answered Chosen Option: —
ns 29	21 years to 18 years? X 1. Shankar Dayal Sharma X 2. R Venkataraman X 3. Giani Zail Singh X 4. KR Narayanan Which of the following drugs has been held largely responsil population of vultures from India? 1. Diclotenac X 2. Tylenol X 3. Lunesta	Chosen Option : 2 Question ID: 654978296 Status: Not Answered Chosen Option: —
29	21 years to 18 years? X 1. Shankar Dayal Sharma Z 2. R Venkataraman X 3. Grani Zail Singh X 4. KR Narayanan Which of the following drugs has been held largely responsil population of vultures from India? 1. Dictofenac X 2. Tylenol	Chosen Option : 2 Question ID: 654978296 Status: Not Answered Chosen Option: —
ns 29	21 years to 18 years? X 1. Shankar Dayal Sharma X 2. R Venkataraman X 3. Giani Zail Singh X 4. KR Narayanan Which of the following drugs has been held largely responsil population of vultures from India? 1. Diclotenac X 2. Tylenol X 3. Lunesta	Question ID: 654978296 Status: Not Answered Chosen Option: —
ns 29	21 years to 18 years? X 1. Shankar Dayal Sharma X 2. R Venkataraman X 3. Giani Zail Singh X 4. KR Narayanan Which of the following drugs has been held largely responsil population of vultures from India? 1. Diclotenac X 2. Tylenol X 3. Lunesta	Question ID: 654978296 Status: Not Answered Chosen Option: — Die for nearly wiping out the Question ID: 654978267
ns 29	21 years to 18 years? X 1. Shankar Dayal Sharma X 2. R Venkataraman X 3. Giani Zail Singh X 4. KR Narayanan Which of the following drugs has been held largely responsil population of vultures from India? 1. Diclotenac X 2. Tylenol X 3. Lunesta	Question ID: 654978296 Status: Not Answered Chosen Option: —

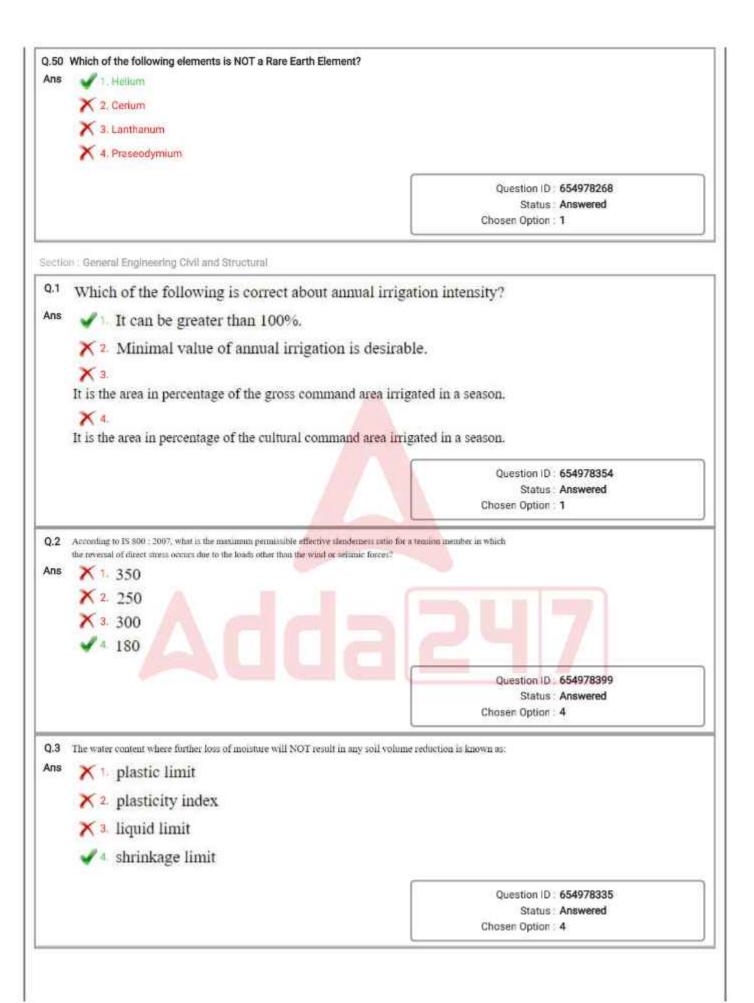


1. Magnus effect 2. Tyndall effect		
X 3. Threshold effect		
X 4. Malter effect		
A Statement Section		CARAMANANA NA ANTA
	Question ID	654978275 Answered
	Chosen Option :	
As per the Union Budget 2019-20, Indian economy is on the path to economy by:	becoming a \$5 trillion	
X 1. 2027-28		
X 2. 2026-27		
√ 3, 2024-25		
X 4, 2025-26		
V (100 1 100 12 12 12 12 12 12 12 12 12 12 12 12 12	f	6.59% UNIV 65556615
	Question ID	654978260 Not Answered
	Status	NOT MISWELED
Scientists from which of the following institutions have launched a 'Al48harat' to promote innovation in Artificial Intelligence in India? 1. Indian Institute of Science, Bengaluru 2. Tata Institute of Fundamental Research, Mumbal	Chosen Option :	-
'Al48harat' to promote innovation in Artificial Intelligence in India? 1. Indian institute of Science, Bengaluru	Chosen Option :	
Al48harat to promote innovation in Artificial Intelligence in India? 1. Indian Institute of Science, Bengaluru 2. Tata Institute of Fundamental Research, Mumbal 3. National Physical Laboratory, New Delhi	Platform named	
Al48harat to promote innovation in Artificial Intelligence in India? 1. Indian Institute of Science, Bengaluru 2. Tata Institute of Fundamental Research, Mumbal 3. National Physical Laboratory, New Delhi	platform named Question ID	654978266
Al48harat to promote innovation in Artificial Intelligence in India? 1. Indian Institute of Science, Bengaluru 2. Tata Institute of Fundamental Research, Mumbal 3. National Physical Laboratory, New Delhi	platform named Question ID	654978266 Not Answered
*Al48harat' to promote innovation in Artificial Intelligence in India? **1. Indian Institute of Science, Bengaluru ***2. Tata Institute of Fundamental Research, Mumbal ***3. National Physical Laboratory, New Delhi **4. Indian Institute of Technology, Madras	Question ID Status Chosen Option	654978266 Not Answered
Al48harat to promote innovation in Artificial Intelligence in India? 1. Indian Institute of Science, Bengaluru 2. Tata Institute of Fundamental Research, Mumbal 3. National Physical Laboratory, New Delhi	Question ID Status Chosen Option	654978266 Not Answered
'Al48harat' to promote innovation in Artificial Intelligence in India? X 1. Indian Institute of Science, Bengaluru X 2. Tata Institute of Fundamental Research, Mumbal X 3. National Physical Laboratory, New Delhi 4. Indian Institute of Technology, Madras Which of the following is a delicate membrane having enormous nu	Question ID Status Chosen Option	654978266 Not Answered
'Al48harat' to promote innovation in Artificial Intelligence in India? X 1. Indian Institute of Science, Bengaluru X 2. Tata Institute of Fundamental Research, Mumbal X 3. National Physical Laboratory, New Delhi 4. Indian Institute of Technology, Madras Which of the following is a delicate membrane having enormous nucells in the human eye? 1. Retina	Question ID Status Chosen Option	654978266 Not Answered
'Al48harat' to promote innovation in Artificial Intelligence in India? X 1. Indian Institute of Science, Bengaluru X 2. Tata Institute of Fundamental Research, Mumbal X 3. National Physical Laboratory, New Delhi 4. Indian Institute of Technology, Madras Which of the following is a delicate membrane having enormous nucells in the human eye? 1. Retina	Question ID Status Chosen Option	654978266 Not Answered
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	X 2, Glucose X 3, Ethanol	
	4. Pyruvate	
	- Thermal	
		Question ID: 654978273
		Status: Answered Chosen Option: 4
1	Which of the following mountain ranges has Mahen	dragin as one of its highest peaks?
	X 1. Jaintia Hills	
	X 2. Garo Hills	
	✓ 3. Eastern Ghots	
	X 4. Aravelli Hills	
		F
		Question ID: 654978283 Status: Answered
		Chosen Option: 4
	X 3. soil type ✓ 4. slope	
		Question ID : 654978286
		Status: Answered
		Chosen Option : 2
	Which of the following devices converts chemical en	nergy into electrical energy?
1	The second secon	
	✓ 2. Battery	
	2. Battery X 3. Dynamo	
	✓ 2. Battery	
	2. Battery X 3. Dynamo	Question ID:: 654978265
	2. Battery X 3. Dynamo	Question ID: 654978265 Status: Answered Chosen Option: 2

× 2. Hanuwantia	
X 3. Mandhata	
X 4. Kabirwad	
	Question ID: 654978256
	Status: Answered
	Chosen Option : 1
13 What is the name of the first female pilot in the Indi	ian Navy?
IS X 1. Alpana	
2. Shivengi	
X 3. Poonam	
X 4. Deepika	
	Oriention ID: 654978292
	Question ID: 654978292 Status: Answered
	Status: Answered Chosen Option: 2
1. Bharavi 2. Charudetta	Status: Answered Chosen Option: 2
1. Bharavi 2. Charudetta 3. Kamandaka	Status : Answered Chosen Option : 2 anskrit text titled 'Rasamanjari'?
1. Bharavi 2. Charudetta 3. Kamandaka	Status : Answered Chosen Option : 2 Sanskrit text titled 'Rasamanjari'? Question ID : 654978289 Status : Not Answered
1. Bharavi 2. Charudetta 3. Kamandaka	Status : Answered Chosen Option : 2: Sanskrit text titled 'Rasamanjari'? Question ID : 654978289 Status : Not Answered
1. Bharavi 2. Charudetta 3. Kamandaka 4. Bhanudatta 4. Bhanudatta 4. In Alternating Current, which of the following device voltages from one voltage to another?	Status: Answered Chosen Option: 2 Anskrit text titled 'Rasamanjari'? Question ID: 654978289 Status: Not Answered Chosen Option: —
2. Charudatta 3. Kamandaka 4. Bhanudatta 4. Bhanudatta 4. In Alternating Current, which of the following device voltages from one voltage to another? 1. Transformer	Status: Answered Chosen Option: 2 Anskrit text titled 'Rasamanjari'? Question ID: 654978289 Status: Not Answered Chosen Option: —
1. Bharavi 2. Charudatta 3. Kamandaka 4. Bhanudatta 4. Bhanudatta 4. In Alternating Current, which of the following device voltages from one voltage to another? 1. Transformer 2. Resistor	Status: Answered Chosen Option: 2 Anskrit text titled 'Rasamanjari'? Question ID: 654978289 Status: Not Answered Chosen Option: —
1. Bharavi 2. Charudatta 3. Kamandaka 4. Ehanudatta 4. Ehanudatta 4. In Alternating Current, which of the following device voltages from one voltage to another? 1. Transformer 2. Resistor	Status: Answered Chosen Option: 2 Anskrit text titled 'Rasamanjari'? Question ID: 654978289 Status: Not Answered Chosen Option: —
1. Bharavi 2. Charudatta 3. Kamandaka 4. Bhanudatta 4. Bhanudatta 4. In Alternating Current, which of the following device voltages from one voltage to another? 1. Transformer	Status: Answered Chosen Option: 2 Anskrit text titled 'Rasamanjari'? Question ID: 654978289 Status: Not Answered Chosen Option: —
1. Bharavi 2. Charudatta 3. Kamandaka 4. Bhanudatta 4. Bhanudatta 4. In Alternating Current, which of the following device voltages from one voltage to another? 1. Transformer 2. Resistor	Status: Answered Chosen Option: 2 Anskrit text titled 'Rasamanjari'? Question ID: 654978289 Status: Not Answered Chosen Option: —
1. Bharavi 2. Charudatta 3. Kamandaka 4. Bharudatta 45 In Alternating Current, which of the following device voltages from one voltage to another? 1. Transformer 2. Resistor	Question ID: 654978289 Status Not Answered Chosen Option: — es is used to easily and efficiently convert





Q.4 What is the main reason for pH control during disinfection?

Ans

X 1. To inhibit the reaction of chlorine with water



To ensure that powerful residual hypochlorous acid (HOCl) is formed

- X 3. To ensure a good water pH in the distribution system
- X 4. To ensure only HCl is formed

Question ID: 654978374 Status: Answered

Chosen Option: 1

Q.5 Calculate the approximate number of cement bags required for preparing wer concrete of 10 m³ by volume in 1 : 3 : 6 mix proportion. Consider dry volume of concrete to be 1.54 m³ per cubic metre of wet concrete.

Ans

X 1. 50 bags

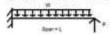


- X 3. 35 bags
- X 4. 40 bags

Question ID: 654978315 Status: Answered

Chosen Option: 2

Q.6 A cantilever beam of span L as shown in the figure is subjected to a uniformly distributed load Wand a concentrate upward load, P, at its free end. For vertical displacement to be zero at the free end, the value of P is:



Ans

 $\times 1.\frac{5}{8}wL$



- \times 3. $\frac{3}{5}wL$
- $\sqrt{4} \frac{3}{8} wL$

Question ID: 654978379

Status: Answered

Q.7 The 'no fines concrete' is used for: Ans X 1 higher workability X 2 higher strength ★ 3 higher durability higher permeability Question ID: 654978383 Status: Not Answered Chosen Option :-Q.8 Which of the following conditions is NOT applicable to a true regime? Ans Channel can be scoured more easily than it can be deposited. X 2. Silt grade is constant. ✗ ₃ Discharge is constant. X 4 Silt charge is constant. Question ID: 654978355 Status: Answered Chosen Option: 1 Q.9 An excavation is to be made in a saturated soft clay (qu=0) with vertical sides. What will be the maximum unsupported depth of the vertical cut? Given that cohesion intercept - 30 kN/m². unit weight of clay = 15 kN/m2 Ans 1. 5 m 2 8 m X 3. 6 m X 4 4 m Question ID: 654978342 Status: Answered Chosen Option: 2 Q.10 Which of the following types of foundation is best suited in an expansive type of soil? X 1. Steel piles X 2 Timber piles Under reamed piles X 4. Shallow foundation Question ID: 654978340 Status: Answered Chosen Option: 3

Q.11 A three-binged parabolic arch of span 20 m and rise 4 m carries a concentrated load of 150 kN at 4 m from left support 'A'. Calculate the vertical reaction and the horizontal thrust, respectively, at support 'A'.

Ans

 \times 1. $V_A = 40 \text{ kN}$ and $H_A = 80 \text{ kN}$

 \times 2. $V_A = 75 \text{ kN}$ and $H_A = 120 \text{ kN}$

 \times 3. $V_A = 80 \text{ kN} \text{ and } H_A = 50 \text{ kN}$

4. V_A = 120 kN and H_A = 75 kN

Question ID: 654978378 Status: Answered

Chosen Option: 4

The power transmitted through a water carrying pipe is maximum when

(ignoring the minor losses):



the head loss due to friction is one-third of the total head applied



the head loss due to friction is equal to the total head applied



the head loss due to friction is half of the total head applied



the head loss due to friction is two times the total head applied

Question ID: 654978351

Status: Answered

Chosen Option: 1

 $^{Q.13}$ For a scale of 1 cm = 2.5 km, the representative fraction is:

Ans

√1.1:250000

X 2. 1:2500000

X 3. 1:25000

X 4.1:2500

Question ID: 654978325

Status: Answered

Q.14 Which of the following is not a cross-drainage work? Ans X 1. Aqueduct X 2. Syphon X 3. Super passage 4 Tunnel Question ID: 654978353 Status: Answered Chosen Option: 4 Q.15 Choose the INCORRECT characteristic of a contour from among the following. A watershed line crosses the contours at right angles. The direction of steepest slope is along the longest distance between the contours. X 3. Two contour lines touch in the case of a vertical cliff. In the direct method of contouring, the contours are not interpolated. Question ID: 654978331 Status: Answered Chosen Option: 2 Q.16 What is the minimum cement content for a reinforced concrete structural member subjected to moderate exposure condition as per IS 456 : 2000? Assume 20 mm nominal maximum size aggregates are used. Ans X 1. 350 kg/m³ × 2 380 kg/m³ √ 3 300 kg/m³ X 4 280 kg/m³ Question ID: 654978385 Status: Answered Chosen Option: 3 Q.17 Which of the following tests is used to check the soundness of cement? X 1. Air permeability method 2. Autoclave test X 3 Compressive strength test X 4. Fineness test Question ID: 654978305 Status: Answered Chosen Option 2

Q.18 As per IS 4560-2000, the tensile strength of concrete of grade M25 according to the 'limit state method' is: X 1. 3.0 N/mm² Ans ✓2. 3.5 N/mm² X 3. 5.0 N/mm² X 4. 2.5 N/mm² Question ID: 654978390 Status: Answered Chosen Option: 2 Q.19 The minimum average compressive strength of common burnt clay brick of class 3.5, as per IS 1077: 1992, is: Ans X 1. 3.5 N/cm² ✓ 2 3.5 N/mm² X 3. 3.5 kg/cm² X 4. 3.5 kg/mm² Question ID: 654978307 Status: Answered Chosen Option: 2 Q.20 From the following what is the standard size of a modular building brick as per IS 1077-1992? Ans X 1. 10 cm × 4 cm × 1 cm × 2. 23 cm × 11 cm × 7 cm √ 3. 19 cm × 9 cm × 9 cm X 4. 20 cm × 10 cm × 10 cm Question ID: 654978301 Status: Answered Chosen Option: 3 Q.21 The minimum tension reinforcement (Fe 500) in the beam of size 450 mm × 600 mm (effective depth = 550 mm) is: Ans X 1. 520 mm² ✓ 2 420 mm² X 3. 580 mm² X 4. 500 mm² Question ID: 654978391 Status: Answered Chosen Option: 2

Q.22 If design bond stress = 1.5 N/mm² is assumed, then the development length of an Fe 500 HYSD bar of nominal diameter 12 mm - which is fully stressed in tension - will be: Ans ✓ 1. 544 mm X 2. 246 mm X 3. 634 mm X 4 798 mm Ouestion ID: 654978392 Status: Marked For Review Chosen Option: 4 Q.23 As per IS 10500 - 2012, the acceptable limit for fluoride in drinking water is: Ans X 1. 0.5 mg/l X 2. 1.5 mg/l X 3. 2.5 mg/l √ 4 1.0 mg/l Question ID: 654978370 Status: Answered Chosen Option: 2 Q.24 According to IS 8041-1990, the minimum specific surface area (by Blaine's air permeability method) required for rapid hardening Portland cement is: Ans √ 1 3250 cm²/g × 2. 3200 cm²/g X 3. 3500 cm²/g X 4. 2250 cm²/g Question ID: 654978386 Status: Answered Chosen Option: 1 Q.25 For obtaining the most economical trapezoidal channel section with depth of flow = 3 m, what is the hydraulic mean radius? Ans ✓ 1.5 m X 2 3.0 m X 3. 2.0 m X 4 1.0 m Question ID: 654978358 Status: Answered Chosen Option: 1

Q.26 Determine the approximate quantity of earthwork for a road in embankment having a length of 120 m on a uniform level ground. The width of formation is 10 m and side slopes are 3 : 1. The heights of the bank at the ends are 1 m and 1.5 m, respectively. Use trapezoidal method considering average of areas at the two ends. Ans X 1- 1785 m³ X 2. 1485 m3 X 3. 1885 m3 ✓ 4. 2085 m³ Question ID: 654978318 Not Attempted and Status: Marked For Review Chosen Option: -Q.27 When 0.1 m³ s water flows through a pipe of area 0.25 m², which later reduces to 0.1 m², what is the velocity of flow in the reduced pipe? Ans X 1- 2.0 m/s X 2. 0.5 m/s √ 3. 1.0 m/s X 4. 1.5 m/s Question ID: 654978345 Status: Answered Chosen Option: 3 Q.28 The minimum eccentricity to be considered for an axially loaded RCC column of size 400 mm = 400 mm with unsupported length of 5 m is: Ans X 1. 15.6 mm X 2 20.5 mm ✓ 3 23.3 mm X 4 30.6 mm Question ID: 654978394 Status: Answered Chosen Option: 3 Which of the following statements is correct regarding leachate? Ans It can be discharged in water bodies without any treatment. 2 It can be used for the irrigation in parks. 3. It is used for the treatment of wastewater. 4 It is generated in a landfill. Question ID: 654978371 Status: Not Answered Chosen Option: -

Q.30 Guide banks are provided in rivers to:

- Ans X 1. increase the depth of flow in the river
 - X 2 decrease the velocity of flow of the river
 - 3 channelise the flow of the river
 - X 4. reduce the flood peak

Question ID: 654978360 Status: Answered Chosen Option: 3

Q.31 An excavation is to be carried out in an ordinary soil for a foundation, which includes lift of 1.5 m and disposal up to 30 m. The volume of earthwork that can be excavated by a single beldar majdoor in one day as per Central Public Works Department (CPWD) norms will be roughly equal to:

Ans

- X 1. 5 m³
- ✓ 2 3 m³
- X 3. 4 m3
- X 4 2 m3

Question ID: 654978314 Status: Answered

Chosen Option: 2

Q.32 A 2-dimensional truss comists of number of members (m), number of joints including supports (j) and number of seactions (r). The degree of static indeterminacy of pin-jointed plane truss is given by:

Ans

- √ 1 m + r − 2j
- \times 2. m+r-3j
- \times 3. m+r+2j
- \times 4. m+r+3j

Question ID: 654978380 Status: Answered Chosen Option: 1

Q.33 Which type of rollers are most effective for the compaction of sands?

Ans

- X 1. Smooth wheeled rollers
- √ 2. Vibratory rollers
- X 3. Sheep foot rollers
- × 4 Pneumatic rollers

Question ID: 654978336 Status : Answered

Q.34 The divergent cone angle in a venturimeter is generally kept lesser than the convergent cone angle to: Ans X 2 save the material X 3. get more accurate measurements X 4 avoid cavitation Question ID: 654978347 Status: Answered Chosen Option: 1 Q.35 The head over a rectangular sharp crested notch at the end of a channel in 0.75 on If an error of 1.5 num is possible in the measurement of the head, then the percentage error in computing the discharge will be: X 1. 0.5 Ans ¥2. 0.3 X 3. 1.0 X 4. 1.5 Question ID: 654978350 Status: Marked For Review Chosen Option: 2 Q.36 The approximate volume of stone required for 100 m³ of rubble stone masonry will be: Ans X 1. 150 m³ X 2 175 m3 ✓ 3. 125 m³ X 4 200 m³ Question ID: 654978313 Status: Not Answered Chosen Option: -

Q.37 The following observations were made on 2% dilution of wastewater:

Dissolved oxygen of aerated water used for dilution = 0 mg/l

Dissolved oxygen of diluted sample after 5 days = 0.6 mg/l

Dissolved oxygen of original sample = 2.0 mg/l

The BOD of 5 days of the sample is:

- Ans X 1 80 mg/l
 - X 2. 60 mg/l
 - X 3. 100 mg/l
 - √ 4. 70 mg/I

Question ID: 654978372 Status: Answered Chosen Option: 4

Q.38 What nature of warping stresses are generated in a reinforced cement concrete pavement during a summer mid-day?

Ans

- Tensile in bottom fibre and compressive in top fibre
- X 2 Compressive in both top and bottom fibre
- X 3 Tensile in both top and bottom fibre
- X 4. Compressive in bottom fibre and tensile in top fibre

Question ID: 654978367

Status: Answered

Chosen Option : 1

Q.39 In earthwork computations on a longitudinal profile, the diagram prepared to work out the quantity of earthwork is:

Ans

- X 1. double mass curve
- 2 mass haul diagram
- X ₃ Mollier diagram
- X 4 flow net

Question ID: 654978332

Status: Answered

Q.40 Consider the following air pollutants:

- 1. NO_X (Oxides of nitrogen)
- 2. PAN (Peroxyacytyl nitrate)
- 3. CO2 (Carbon dioxide)
- 4. CO (Carbon monoxide)

Which of the given air pollutants is/are present in an automobile exhaust gas?

Ans

✓ 1. 1, 3 and 4

X 2 1 and 2

X 3. 1 only

X 4. 2 and 3

Question ID: 654978375 Status: Answered

Chosen Option: 1

Q.41 Choose the correct option from among the following with respect to the given statements.

Statement (i) The effect of the curvature of the earth is to cause an object to appear lower.

Statement (ii) The effect of refraction is to cause an object to appear higher.

Ans

X 1 Only (i) is correct

Both (i) and (ii) are correct

X 3. Only (ii) is correct

X 4. (i) is correct and (ii) is incorrect

Question ID: 654978334

Status: Marked For Review

Chosen Option: 2

Q.42 A declination of 3° east means:

Ans

★ 1 magnetic north is 3° west of true north

× 2 true north is 3° east of magnetic north

X 3. true south is 3° east of magnetic south

4 magnetic north is 3° east of true north

Question ID: 654978326

Status : Answered

Q.43 What is the minimum number of satellites required from which signals can be recovered to enable a global positioning system receiver to determine latitude, longitude and altitude? Ans ✓ ¹ Four X 2 Three X 3. One X 4 Two Question ID: 654978328 Status: Answered Chosen Option: 1 Q.44 As per IS 800: 2007, what is the maximum pitch of bolts allowed in a lap joint between two steel plates (in compression) of equal of thickness, t? Ans X 1. 2.5 times diameter of the hole X 2. 2.5 times diameter of the bolt 3 12t or 200 mm whichever is less 16t or 200 mm whichever is less Question ID: 654978395 Status: Answered Chosen Option: 3 Q.45 Which of the following is taken as the highest safe speed limit, derived from spot speed study, for a highway? Ans X 1. 80th percentile speed X 2 90th percentile speed X 3. 98th percentile speed √ 4 85th percentile speed Question ID: 654978362 Status: Answered Chosen Option: 4 Q.46 Which of the following properties of concrete is determined using a compaction factor test? Ans Workability of concrete X 2. Strength of concrete X 3. Density of concrete X 4 Porosity of concrete Question ID: 654978309 Status: Answered Chosen Option: 1

Q.47 Which type of steel member in tension will NOT experience any shear lag effect when connected to a gasset plate? Ans An I section with bottom flange connected to the gusset plate. X 2. An angle with one leg connected to the gusset plate. X 3. Two angles connected back to back on both sides of the gusset plate. A rectangular plate. Question ID: 654978397 Status: Not Answered Chosen Option: -Q.48 Determine the present value of a building that was constructed 30 years ago at ₹50,000. The estimated life of the building is 50 years, at the end of which it will have 10% scrap value of its cost of construction. Depreciation is to be colculated by straight line method. Ans X 1. ₹24,000 X 2. ₹25,000 ₹23,000 X 4. ₹15,000 Question ID: 654978324 Status: Not Answered Chosen Option: -Q.49 The most accurate cost for a building project is arrived at through: Ans X 1. cube rate estimate 2 detailed estimate X 3 plinth area estimate 4. preliminary estimate Question ID: 654978319 Status: Answered Chosen Option: 2 Q.50 Which of the following increases the workability of concrete? Ans X 1. Increasing aggregate-cement ratio Value of the state of the s Increasing the aggregate size without any change in the mix of concrete X 4 Decreasing the water-cement ratio Question ID: 654978310 Status: Answered Chosen Option: 3

Q.51 The unit of measurement for a half brick wall is: Ans square metre X 2. cubic metre X 3. metre X 4 cubic foot Question ID: 654978317 Status: Answered Chosen Option: 1 Q.52 Which of the following it NOT a critical parameter to control cracking and rutting in a flexible pavement? Ans X 1. Tensile strain near the surface close to the edge of the wheel √ ² Vertical sub-base strain X 3. Vertical subgrade strain X 4. Tensile strain at the bottom of bituminous layer Question ID: 654978368 Status: Answered Chosen Option: 4 Q.53 Which of the following form of iron is obtained after smelting of calcined ore in a blast furnace? X 1 Cast iron 2 Pig iron X 3. Wrought iron X 4 Mild steel Question ID: 654978312 Status: Not Answered Chosen Option : -Q.54 Membrane curing is done by: Ans applying paraffin or resin-based liquids on the surface of the concrete 2 applying steam on the surface of the concrete X 3. ponding of water on the surface of the concrete 4 applying spray of water on the surface of the concrete Question ID: 654978384 Status: Answered Chosen Option: 1

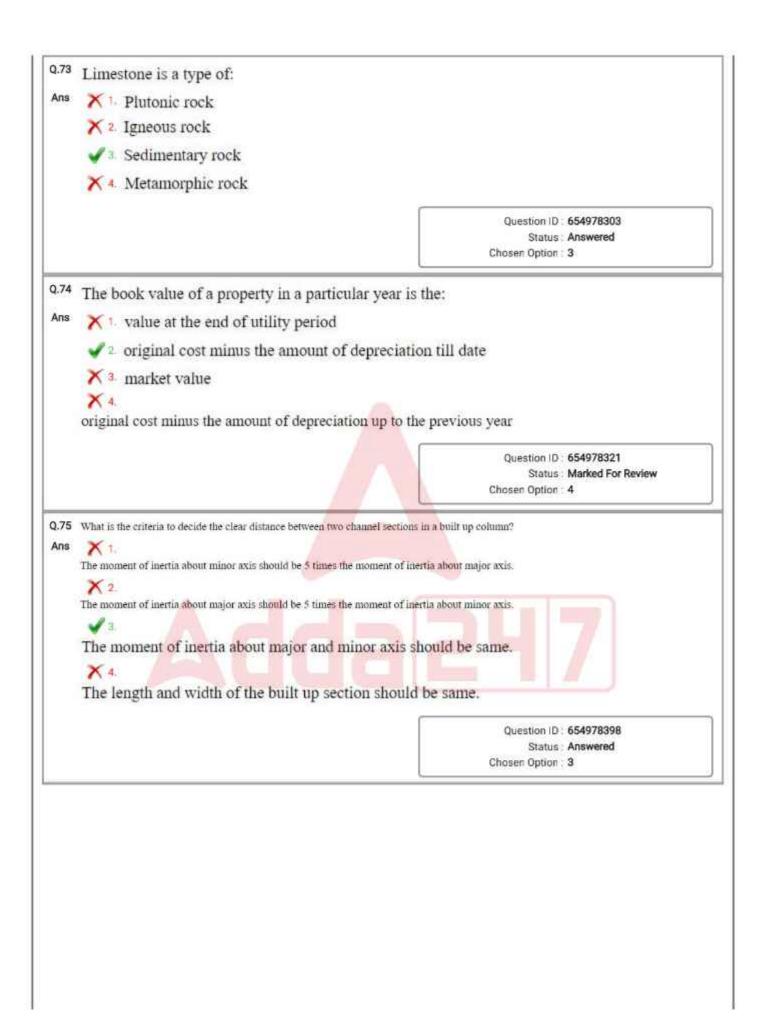
Q.55 A beam of span 5 m, fixed at A and B, carries a point load of 50 kN at 2 m from 'A'. The fixed end moments at the supports 'A' and 'B', respectively, are: Ans X 1. 24 kNm clockwise and 36 kNm clockwise 2 24 kNm anticlockwise and 36 kNm anticlockwise X 3. 36 kNm clockwise and 24 kNm anticlockwise 4 36 kNm anticlockwise and 24 kNm clockwise Question ID: 654978377 Status: Answered Chosen Option: 4 Q.56 An owner of a building sets aside ₹1,500 as sinking fund in the bank every year, from the rent he gets from the building. He wishes to rebuild another portion of the building after 25 years. If the rate of interest of the bank is 7%, what will be the amount available with him after 25 years? Note: Take 1,0725 = 5.43 Ans X 1. ₹85,625 √ 2. ₹94,929 X 3. ₹78,965 X 4. ₹75,324 Question ID: 654978323 Not Attempted and Status: Marked For Review Chosen Option: -Q.57 The SI unit of kinematic viscosity is: Ans X 1. N-s/m² X 2 dyne-s/m² X 3. cm²/s ✓ 4 m²/s Question ID: 654978343 Status : Answered Chosen Option: 4

Q.58 In a rigid footing on a cohesive soil, the contact pressure distribution is: Ans X uniform non-uniform, with maximum at the centre and minimum at the ends non-uniform, with maximum at the ends and minimum at the centre X 4 linear Question ID: 654978341 Status: Marked For Review Chosen Option: 3 Q.59 Find the delta of a crop when its duty is 900 ha/comec on the field. The base period of the crop is 100 days. X 1. 87 cm X 2 64 cm X 3. 45 cm 4 96 cm Question ID: 654978352. Status: Answered Chosen Option: 4 Q.60 A property fetches a net annual income of \$3,000 deducting all outgoings. Calculate the approximate capitalised value of the property, if the rate of interest is 6% p.a. Ans X 1. ₹1,00,000 X 2. ₹1,75,000 X 3. ₹1,25,000 **4** ₹1.50,000 Question ID: 654978322 Status Not Attempted and Marked For Review Chosen Option: -Q.61 Which of the following is best suited for the compaction of concrete in rigid pavements? Ans X 1. Formwork vibrator 2 Screed board vibrator X 3. Needle vibrator X 4 Table vibrator Question ID: 654978311 Status: Answered Chosen Option: 2

Q.62 Which of the following binders is best suited for repair work of bituminous pavements during rainy weather? Ans Bitumen emulsion X 2. Paving grade bitumen X 3 Coal tar X 4. Cutback bitumen Question ID: 654978363 Status: Answered Chosen Option: 1 Q.63 The defect in which white patches appear on a brick surface is known as: Ans efflorescence X 2. spots X 3. bloating X 4 blisters Question ID: 654978302 Status: Answered Chosen Option: 1 Q.64 Select the correct option from the following regarding ultrasonic pulse velocity test. 1. It is used to measure the strength of wet concrete 2. It is used to obtain estimate of concrete strength of finished concrete elements 3. It is a non-destructive test Ans X 1 1 and 2 X 2. 1 and 3 X 3. 1, 2 and 3 ✓ 4 2 and 3 Question ID: 654978388 Status: Answered Chosen Option: 4 Q.65 The indicator organism used to determine contamination of drinking water is: Ans X 1. salmonella 2 coliform group of bacteria X ₃ iron bacteria X ₄ giardia Question ID: 654978369 Status: Answered Chosen Option: 2

Q.66 If the age of loading increases, the creep coefficient for concrete will: Ans X remain constant increase if age of loading is greater than 28 days, otherwise it will decrease X 3. increase 4 decrease Question ID: 654978389 Status: Answered Chosen Option : 2 Q.67 The sleeper density of a broad gauge track is (M+7) in metric units, where M is length of rail in metres. The number of sleepers for 1.024 km length of track is: Алѕ 1. 1700 X 2. 1500 3 1600 X 4. 1900 Question ID: 654978366 Status: Answered Chosen Option: 3 Q.68 The following details pertain to the crossing of a canal with a natural drain. Full supply level in canal = RL 213.5 m Bed level of canal = RL 212 m High flood level in drain = RL 210 m Considering the given details, which type of cross drainage work is best suited to the site? Ans ✓ I. Aqueduct X 2 Super passage X 3. Syphon aqueduct X 4 Syphon Question ID: 654978357 Status: Answered Chosen Option: 1 Q.69 Which of the following ingredients imparts red colour to the clay bricks? Ans X 1 Silica √ 2 Iron Oxide X 3. Lime X 4 Aluminium Question ID: 654978304 Status: Answered Chosen Option: 2

Q.70 A UDL of 10 kN m of length 5 m is moving from left to right support on a simply supported beam of span 10 m. The maximum bending moment at 4 m from the left support is: Ans X 1. 70 kN-m √ 2 90 kN-m X 3 50 kN-m X 4. 30 kN-m Question ID: 654978382 Not Attempted and Marked For Review Status: Chosen Option: -Q.71 If B = centre of buoyancy, G = centre of gravity, B₁ = new centre of buoyancy when the floating body rotates by an angle θ , then the location of metacentre will be: Ans in between point B and B₁ at the point of intersection of axis of floating body passing through B and G and vertical line passing through Bs at the point of intersection of axis of floating body passing through B and G and horizontal line passing through B; X 4 same as B₁ Question ID: 654978344 Status: Answered Chosen Option 2 Q.72 The interface treatment provided to plug in the voids of porous surfaces and to bond loose particles in bituminous pavements is called: Ans X 1. tack coat X 2 seal coat X 4. surface dressing Question ID: 654978364 Status: Answered Chosen Option: 3



Q.76 For a fixed-end beam of length L and central point load of W, what will be the value of W at collapse? (Note: Plastic moment capacity of beam = Mp) Ans × 1. 6 M_p/L × 2. 10 Mp/L X 3. 9 Mp/L √ 4. 8 M_p/L Question ID: 654978400 Status: Answered Chosen Option: 4 Q.77 For a hill road with the ruling gradient of 6%, what will be the compensated gradient at a curve of radius 60 m? X 1. 5.5% X 2 4.5% J 3. 4.75% X 4. 5% Question ID: 654978365 Status: Marked For Review Chosen Option: 3 Q.78 The carpet area of a residential building is generally ______ of its plinth area. X 1. 80% - 95% Ans √ 2 50% - 65% X 3. 65% - 80% X 4. 35% - 50% Question ID: 654978316 Status: Answered Chosen Option: 2 Q.79 A backsight (BS) reading taken by a level instrument set at station A on a bench mark (RL = 210.852) is 2.325 m, and foresight (FS) at a station is measured as 1.835 m. What will be the reduced level (RL) of the station A? Ans X 1. 210.362 m X 2. 211.654 m

✓ 3 211.342 m × 4 210.842 m

> Question ID : 654978333 Status : Marked For Review

0.80 What is the effect on the strength of concrete on addition of puzzolanas, keeping other factors same? Ans There is no change in the ultimate strength. The early strength decreases but the ultimate strength remains almost same. X 3. The ultimate strength decreases. X 4 The early strength and ultimate strength both increase. Question ID: 654978387 Status: Answered Chosen Option: 2 Q.81 The design value of limiting span to effective depth ratio for deflection control of a beam is independent of: Ans X 1. span of the beam 2 creep and shrinkage X 3. service stress in tension reinforcement A area of compression reinforcement Question ID: 654978393 Status: Answered Chosen Option: 2 A method usually adopted to contour rough mountaineous region is: Ans √ 1 tacheometry X 2 chain and level X 3. plane table A chain and compass Question ID: 654978327 Status: Answered Chosen Option: 1 Q.83 A silt control device consisting of a number of rectangular tunnels — provided parallel to the axis of head regulator and terminating near the under-sluiced weir — to allow the clearer water to flow through the head regulator is called: Ans silt excluder X 2 silt tunnel X 3. under sluice X 4 silt ejector Question ID: 654978359

Status: Answered

Q.84 A sedimentation tank removes 210 kg of suspended solids per day. What will be the volume of sladge produced per day if the mointure content of sludge is 95% (by weight) and specific gravity of wet sludge is 1.057. Ans X 1. 5 m³ √2 10 m³ X 3. 30 m³ X 4 20 m3 Question ID: 654978376 Status: Marked For Review Chosen Option: 1 Q.85 Which of the following types of resolution corresponds to the smallest difference in radiant energy detected by a sensor? X 1. Spectral resolution Radiometric resolution X 3 Temporal resolution X 4 Spatial resolution Question ID: 654978330 Status: Not Answered Chosen Option: -Which of the following statements is INCORRECT? Ans The total plinth area of a building shall be the sum of the plinth area at every floor, including the basement if any. 2 Circulation area is the area of doors and windows. The carpet area of a building along with area of its kitchen, pantry, store, lavatory, bathroom and glazed veranda, is called floor ages. The usable covered area of the rooms of any storey of a building is called carpet area. Question ID: 654978320 Status: Answered Chosen Option: 1 Q.87 Which of the following is true for the flow of any fluid, real or ideal, laminar or turbulent? It satisfies the equation of continuity X 2. It satisfies Newton's law of viscosity X 3. Velocity at boundary must be zero relative to boundary Y 4. Velocity normal to a solid boundary is zero Question ID: 654978346 Status: Answered Chosen Option: 1

Q.88 A two-lane road with design speed 60 km/h has a horizontal curve of radius 400 m. What will be the super elevation required to be provided for the mixed traffic conditions at the curve as per IRC 38 - 1998? Ans X 1. 8.7% X 2. 6.4% 3. 4.0% X 4. 7% Question ID: 654978361 Status: Marked For Review Chosen Option: 3 Q.89 The strength of the soil is mainly described by its: Ans X 1. tensile strength X 2 torsional strength shear strength 4 compressive strength Question ID: 654978339 Status: Answered Chosen Option: 3 Q.90 Select the incorrect statement from the following. Ans Purlin is subjected to biaxial bending. The span of purlin is centre to centre of truss; purlin is located at the panel point of the truss. 3. Purlin runs perpendicular to truss. Purlin is designed as a tension member. Question ID: 654978396 Status: Answered Chosen Option: 3 Which of the following is FALSE regarding triangular weir? Ans The flow through the weir depends on the vertex angle X 2. Coefficient of discharge is fairly constant for all the heads Triangular weir is more effective under small discharges than a rectangular weir Ventilation of triangular weir is necessary Question ID: 654978348 Status: Answered Chosen Option: 4

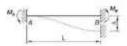
Q.92 If the angle of internal friction (φ) = 30° for a soil, the angle of failure plane relative to the major principle plane in a triaxial test will be:

Ans

- ✓ 1. 60°
- X 2. 30°
- X 3. 45°
- X 4 67.6°

Question ID: 654978338 Status: Answered Chosen Option: 1

Q.93 For the fixed beam shown below, what will be the moments M_A and M_B, induced due to sinking of right support by x, where EI = flexual rigidity of the beam?



Ans

- $M_A = \frac{6EI\Delta}{L^2}, M_B = \frac{6EI\Delta}{L^2}$
- \times 2. $M_A = \frac{3EI\Delta}{L^2}$, $M_B = \frac{6EI\Delta}{L^2}$
- \times 3. $M_A = \frac{6EI\Delta}{L^2}$, $M_B = \frac{3EI\Delta}{L^2}$
- \times 4. $M_A = \frac{3EI\Delta}{L^2}$, $M_B = \frac{3EI\Delta}{L^2}$

Question ID: 654978381

Status: Answered

Chosen Option : 1

Q.94 In levelling, which of the following is an advantage of the rise and full method over the height of instrument method?

Ans

X 1. It is relatively rapid



× 2. No backsight is required at change points

Check on the calculations for intermediate sights are done

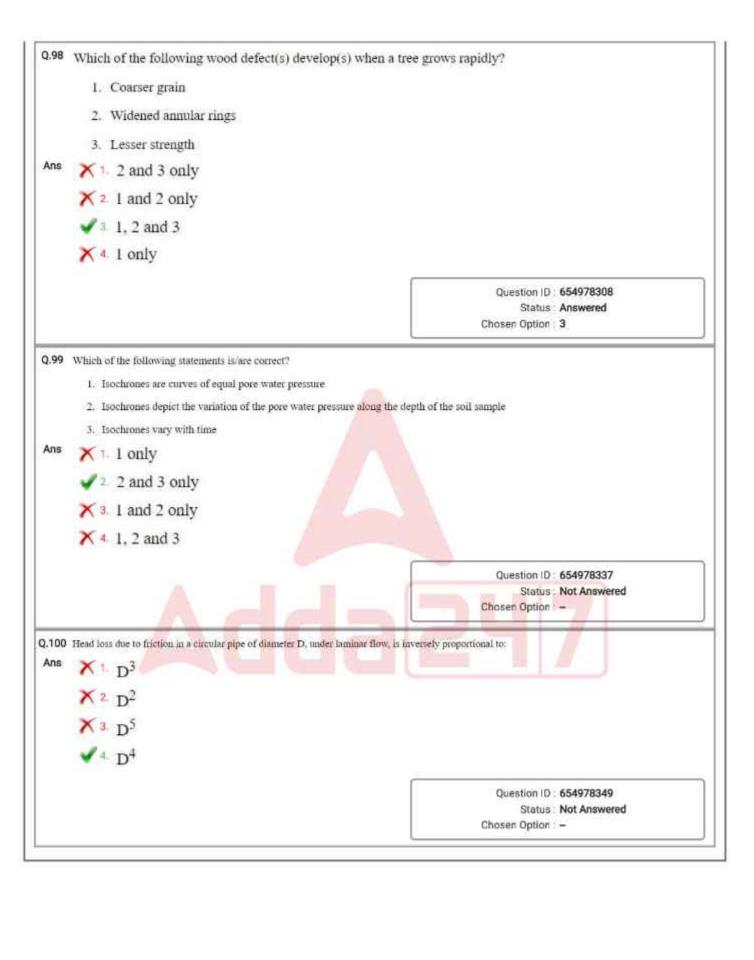
X 4

No benchmark is required to calculate the Reduced level of each point

Question ID: 654978329

Status: Answered

Q.95 Which of the following is NOT the correctly matched pair? Open sluice - Non-modular outlet 2. Gibb's module - Modular outlet 3. Drowned pipe outlet - Modular outlet 4. Venturi flume - Semi module Ans Question ID: 654978356 Status: Answered Chosen Option : 3 Q.96 According to 15 \$112 : 2013, the initial setting time of Ordinary Portland Cement (OPC) of grade 43 should be more Ans ✓ 1- 30 min X 2 60 min X 3. 15 min X 4 600 min Ouestion ID: 654978306 Status: Answered Chosen Option: 1 Q.97 Identify the type of decay processes taking place in the Bangalore and Indore methods of composting respectively. X 1. Aerobic and anaerobic respectively × 2. Both aerobic processes Anaerobic and aerobic respectively X 4. Both anaerobic processes Question ID: 654978373 Status: Answered Chosen Option: 3



Junior Engineer Civil Mechanical Electrical and Quantity Surveying and Contract Examination 2019

Exam Date	30/10/2020	
Exam Time	3:00 PM - 5:00 PM	
Subject	Junior Engineer 2019 Civil	

Section: General Intelligence and Reasoning

Q.1 Which letter from the options will replace the question mark (?) in the following series?

B, C, E, H, L, ?, W

Ans

X 1 R

X 2 P

√3 Q

X 4. T

Question ID: 8161613606 Status: Answered

Chosen Option: 3

Q.2 Select the correct mirror image of the given figure when a vertical mirror in placed on the right side of the figure.



Ans















Question ID : 8161613652 Status : Answered

- Q.3 Samson, Silvester, Noah, Peter and Bruce are standing in a row facing towards the South.
 - (a) Samson is standing to the immediate right side of Bruce.
 - (b) Silvester is standing between Noah and Peter.
 - (c) Peter is standing between Silvester and Samson.

Who is standing in the middle of the row?

Ans

- X 1 Bruce
- X 2 Noah
- Ja Peter
- X 4 Samson

Question ID : 8161613635

Chosen Option: 3

Status : Answered

Q.4 Sapra invests 18% of her monthly income in muntal funds. If the invests ₹5,724 in mutual funds, what is her monthly income?

Ans

- X 1 ₹38,100
- X 2 ₹30,800
- X 3 ₹38,000
- √ 4 ₹31,800

Question ID : 8161613646

Status : Answered

Chosen Option: 4

Q.5 Pooja started from point A and walked 15 feet in the north-east direction to reach point B. She then took a 270° anti-clockwise turn and walked 5 feet to reach point C. After that, she took a 90° clockwise turn and walked 18 feet to reach point D. She continued walking in the same direction after reaching point D. In which direction is she finally walking towards?

Ans

- 1 South-West
- X 2 West
- X 3 South-East
- X 4 East

Question ID : 8161613630

Status : Answered

Chosen Option: 1

Q.6 Select the word-pair in which the two words are related in the same way as the two words in the following word-pair.

Write : Pencil

Ans

X 1 Mattress : Pillow

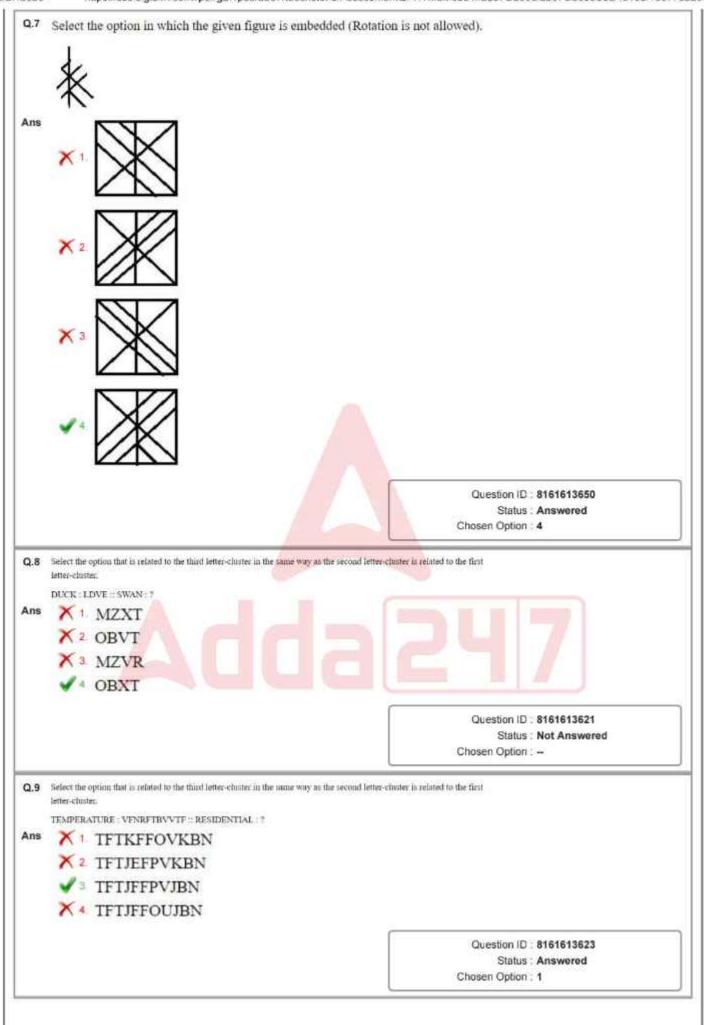
✓ 2 Guard: Shield

X 3 Blood : Red

X 4 Whistle : Noise

Question ID : 8161613618

Status : Answered



Q.10 'Horse' is related to 'Gallop' in the same way as 'Mouse' is related to '______.

Ans

X 1 Fleet

√ 2 Scamper

X 3 Frisk

X 4 Trot

Question ID: 8161613617

Status : Not Answered

Chosen Option : --

Q.11 A man sitting in the audience pointed at a boy performing on stage and said "That boy is the brother of Mira, who is the daughter of the wife of the only son of the mother-in-law of my wife". How is the boy related to the father of the man in

Ans

X 1 Father

X 2 Grandfather

X 4 Son

Question ID : 8161613633

Status : Answered

Chosen Option: 3

Q.12 Which two signs should be interchanged to make the given equation correct?

$$21 \div 3 - 35 + 7 \times 28 = 224$$

Ans

√ 1 × and -

X2 + and X

X 3 ÷ and X

X 4 - and ÷

Question ID : 8161613644

Status : Not Answered

Chosen Option : --

Q.13 Select the alternative that arranges the following words in a logical and meaningful order.

- 1. Tablespoon
- 2. Fanatical
- 3. Recognition
- 4. Illustrations
- 5. Gastronomist

Ans

X 1. 5, 4, 3, 1, 2

X 2 4, 5, 1, 3, 2

√ 3. 4, 5, 3, 1, 2

X 4 5, 4, 1, 3, 2

Question ID : 8161613612

Status : Not Answered

Chosen Option : --

Q.14 Which two digits should be interchanged on the left hand side of the equal sign to make the given equation correct?

 $596 - 125 + 19 + 65 \times 2 = 598$

Ans

- X 1 9 and 6
- X 2 1 and 9
- X 3 5 and 6
- ✓ 4 2 and 5

Question ID : 8161613645 Status : Not Answered

Chosen Option : --

Q.15 Select the option that is related to the third number in the same way as the second number is related to the first number.

24:5:48:2

Ans

- V17
 - X 2. 9
 - X 3 8
 - X 4 6

Question ID: 8161613639

Status : Answered

Chosen Option: 1

Q.16 In a code language, 'LEMON' is written as 'OPNEM'. How will 'APPLE' be written as in the same language?

An

- √ 1 FMQQB
- X 2 FMOQB
- X 3 FMQOB
- X 4 FMOOB

Question ID : 8161613624

Status : Not Answered

Chosen Option: --

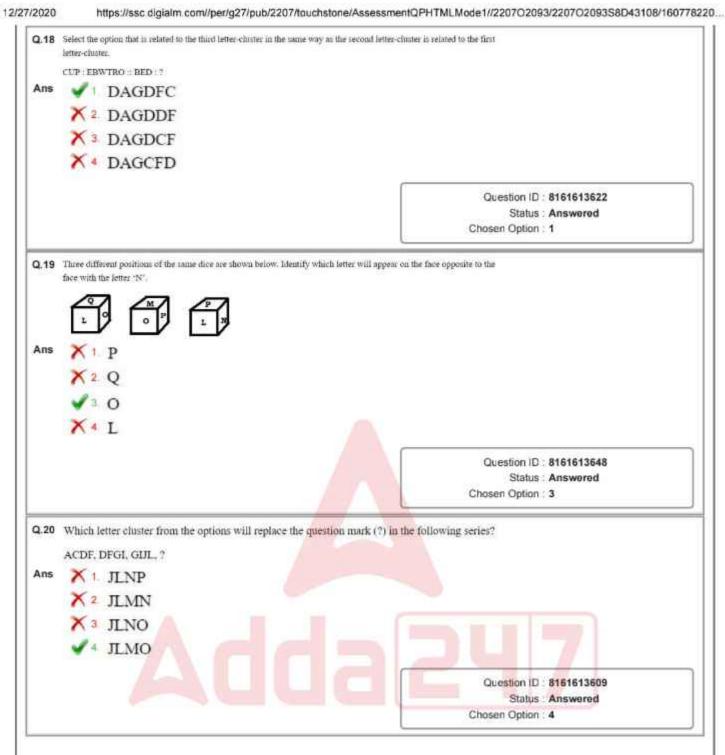
Q.17 Sachin left his home and walked 60 m in the north direction. Then he took a 90° clockwise turn and walked 120 m to reach a shop. He then took a left turn and walked 30 m to reach his school. Find the shortest distance between his house and school.

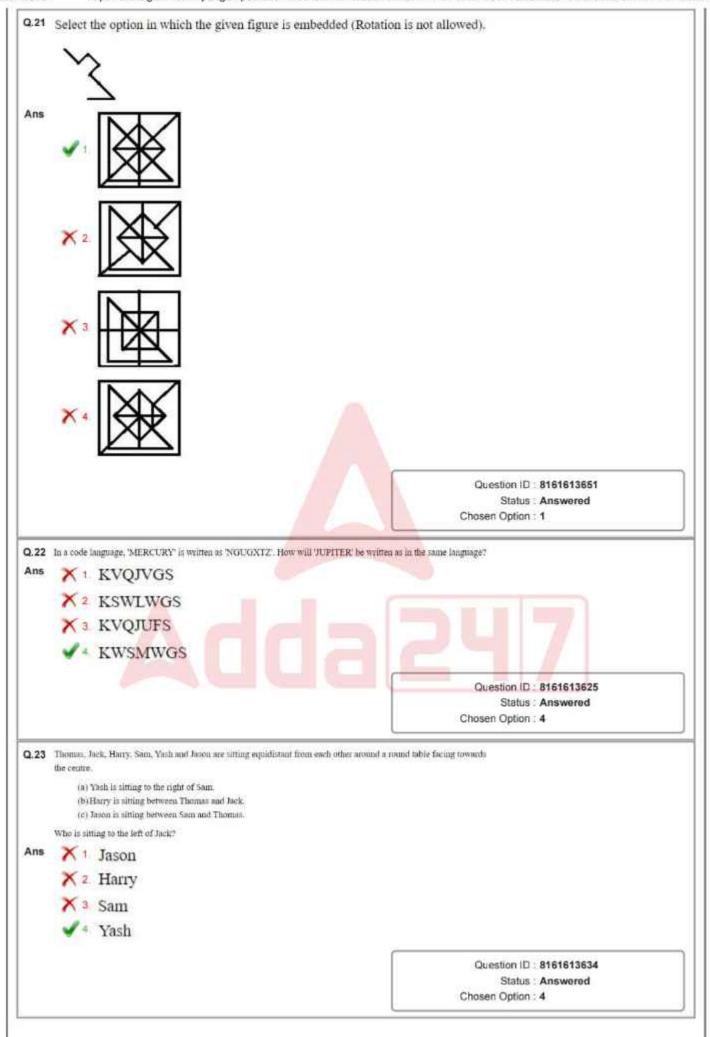
Ans

- X 1 130 m
- X 2 90 m
- ✓ 3 150 m
- X 4 120 m

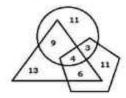
Question ID: 8161613631

Status : Answered





Q.24 A sports club has 57 members as represented by the given figure. The circle represents members who play badminton, the pentagon represents members who play tennis and the triangle represents members who play cricket.



How many members of the club do NOT play badminton?

Ans

X 1. 46

√ 2 30

X 3. 33

X 4 24

Question ID : 8161613654 Status : Answered

Chosen Option: 2

Q.25 Which number from the options will replace the question mark (?) in the following series?

0, 6, 26, 62, 124,?

Ans

X 1 218

X 2 216

√ 3. 214

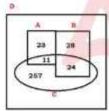
X 4. 212

Question ID : 8161613638

Status: Not Answered

Chosen Option : --

Q.26 In a school represented by Box D, rectangle B represents the number of students who speak Bengali, rectangle A represents the number of students who speak Tamil and oval C represents the number of students who speak Hindi. Identify the number of students in the school who can speak either Hindi or Bengali or both but not Tamil.



Ans

X 1. 292

X 2 281

√ 3 309

X 4 291

Question ID : 8161613655 Status : Not Answered

2020	https://ssc.digialm.com//per/g27/pub/2207/touchstone/As	sessmentQPHTMLMode1//2207O2093/2207O2093S8D43108/1607		
Q.27	Ram is the only brother of Rupa, who is the only daughter of Maya. If Siryam is the only son of Pushpa, who is the internal grandmother of Ram, then how is Maya related to Pushpa?			
Ans	✓ □ Daughter-in-law			
	× 2 Mother-in-law			
	X ₃ Daughter			
	X 4 Mother			
	Notice	-		
		Question ID : 8161613632 Status : Answered		
		Chosen Option : 1		
2.28	Select the alternative that arranges the following words in the order in which	a they would appear in an English		
-	dictionary.	CONTROL CONTRO		
	1. Brinjal			
	2. Lettuce			
	3. Cabbage 4. Pumpkin			
	s. Spinisch			
Ans	× 1 5, 4, 3, 2, 1			
	× 2 3, 5, 4, 1, 2			
	X 3 4, 2, 1, 5, 3			
	√ 4 1, 3, 2, 4, 5			
		Question ID : 8161613611		
		Status : Answered		
		Chosen Option : 4		
2.29	'Heart' is related to 'Cardiac' in the same way as 'Lungs'	is related to *		
Ans	✓ 1. Pulmonary			
	X 2 Cerebral			
	X 3 Gastric			
	X 4 Hepatic			
		Question ID :: 8161613616		
		Question ID : 8161613616 Status : Answered Chosen Option : 1		

/2020	https://ssc.digialm.com//per/g27/pub/2207/touchs	stone/AssessmentQPHTMLMode1//2207O2093/2207O2093S8D43108/160778
Q.30	Select the alternative that arranges the following word	s in a logical and meaningful order.
	1. Terabyte	
	2. Bit	
	3. Megabyte	
	4. Gigabyte	
	5. Byte	
Ans	× 1. 2, 5, 3, 1, 4	
	× 2 5, 2, 3, 4, 1	
	× 3. 5, 2, 3, 1, 4	
	√ 4 2, 5, 3, 4, 1	
		Question ID : 8161613614 Status : Answered
		Chasen Option : 4
Q.31	Select the number that can replace the question r	mark (2) in the following series
	12, 20, 30, 42, ?	and the same that some
Ans		
:201T	× 2 54	
	X 3 61	
	X 4 66	
	/	
		Question ID : 8161613637 Status : Answered
		Chosen Option : 1
Q.32	Select the option that is related to the third number in the same way as the	the second number is related to the first number.
	3:14:17:7	
Ans	X 1 32	
	× 2 27	
	X 3 28	
	✓ 4 30	
		Question ID : 8161613640
		Status : Answered Chosen Option : 4
Q.33	Samson, Silvester, Noah, Peter and Bruce are standing in a row facing to right of Bruce. Silvester is between Noah and Peter. Peter is between Silv	
Ans	X 1 Bruce	SENIORINA DICTORIO COSTILIO CON TORRE WILLIAM I
	× 2 Samson	
	✓ 3 Noah	
	X ⁴ Peter	
		OverNor ID : Breseless
		Question ID : 8161613641 Status : Answered

Q.34 In a code language, if 'BIRD' is coded as '714239' then how will 'FIRE' be coded in the same language?

1 11142310

X 2 11142311

X 3 12142311

X 4 12142310

Question ID: 8161613626 Status: Not Answered

Chosen Option: --

- Q.35 Select the alternative that arranges the following words in a logical and meaningful order.
 - 1. Month
 - 2. Week
 - 3. Decade
 - 4. Year
 - 5. Fortnight

Ans 1 2, 5, 1, 4, 3

X 2 2, 3, 4, 5, 1

X 3 2, 4, 1, 3, 5

X 4 2, 1, 5, 3, 4

Question ID: 8161613613 Status : Answered

Chosen Option: 1

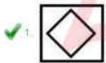
Q.36 A paper is folded and cut as shown below. How will it appear when unfolded?



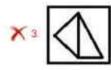




Ans









Question ID: 8161613653 Status : Answered

Q.37 Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

- All diaries are books.
- All pages are diaries.

Conclusions:

I. All pages are books.

II. Some books are diaries.

III. All books are pages,

Ans

Only conclusion I follows

X 2 Only conclusions II and III follow

X ₃ Only conclusions I and III follow

Only conclusions I and II follow

Question ID: 8161613628

Status : Answered

Chosen Option: 4

Q.38 The ratio of the ages of a mother and a daughter after 20 years will be 15: 8 and the ratio of their ages 8 years ago was 8:1. What is the ratio of their current ages?

Ans

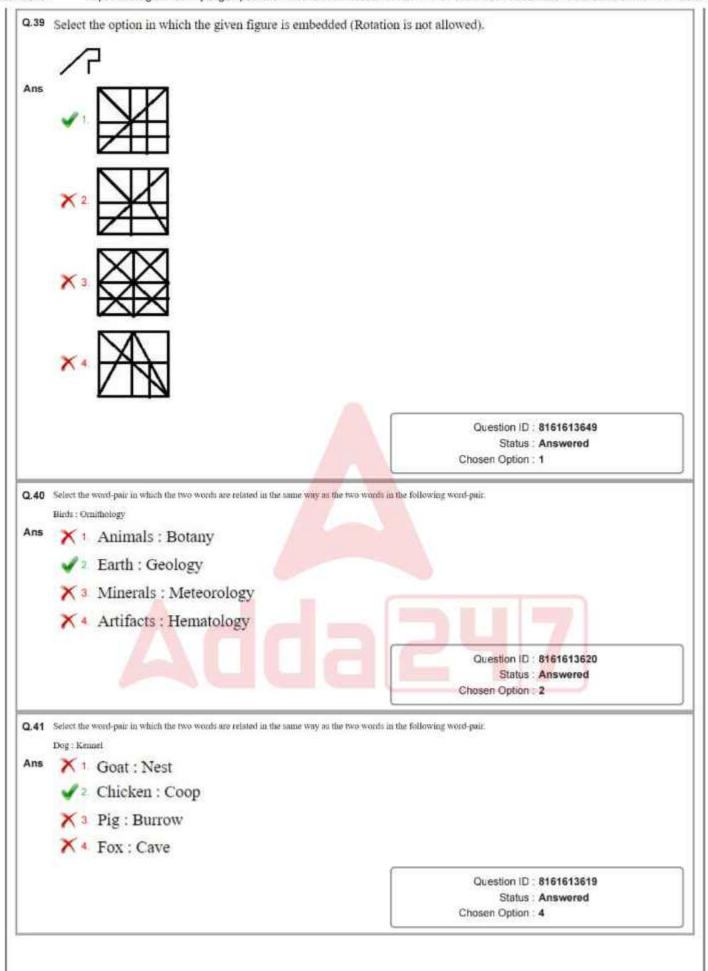
X 1.5:2

X 2 23:14

X 3 4:1

4. 10:3

Question ID: 8161613647 Status: Answered Chosen Option: 3



Q.42 Which number from the options will replace the question mark (?) in the following series?

2, 3, 10, 15, 7, 35

Ans

X 1. 23



V 2 26



X 4 24

Question ID: 8161613636

Status: Not Answered

Chosen Option: --

Q.43 Find the number that can replace the question mark (?) in the below table.

	16	5	82
1	12	13	158
	19	8	?

Ans

X 1. 152

X 2 150

X 3 156

4 154

Question ID : 8161613642

Status : Answered

Chosen Option: 4

Q.44 Select the number that can replace the question mark (?) in the following series.

24, 60, 120, 210, ?

Ans

√ 1 336

X 2 343

X 3 256

X 4 243

Question ID: 8161613643

Status : Answered

Q.45 Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

- · Some fishes are whales
- · No whale is a swimmer.

Conclusions:

- I. All fishes are swimmers.
- II. No fish is a swimmer.
- III. Some fishes are swimmers.

Ans

- Only conclusion III follows
- ✓ 2 Either conclusion II or III follows
- X 3. Both conclusions II and III follow
- X

 ⁴ Only conclusion

 II follows

Question ID: 8161613629 Status: Answered Chosen Option: 1

Q.46 Which letter cluster from the options will replace the question mark (?) in the following series?

AZG, BYH, CXI, ?

- Ans X 1 DVJ
 - X 2 DUK
 - X 3 DYK
 - √ 4 DWJ

Question ID: 8161613608 Status : Answered Chosen Option: 4

Q.47 'Blunt' is related to 'Sharp' in the same way as 'Shallow' is related to '

Ans

- X 1. Ocean
- X 2 Basin
- √ 3 Deep
- X 4 Wide

Question ID: 8161613615 Status: Answered Chosen Option: 3

Q.48 Find the missing letter-cluster that can correctly replace the question mark (?) to complete the given series.

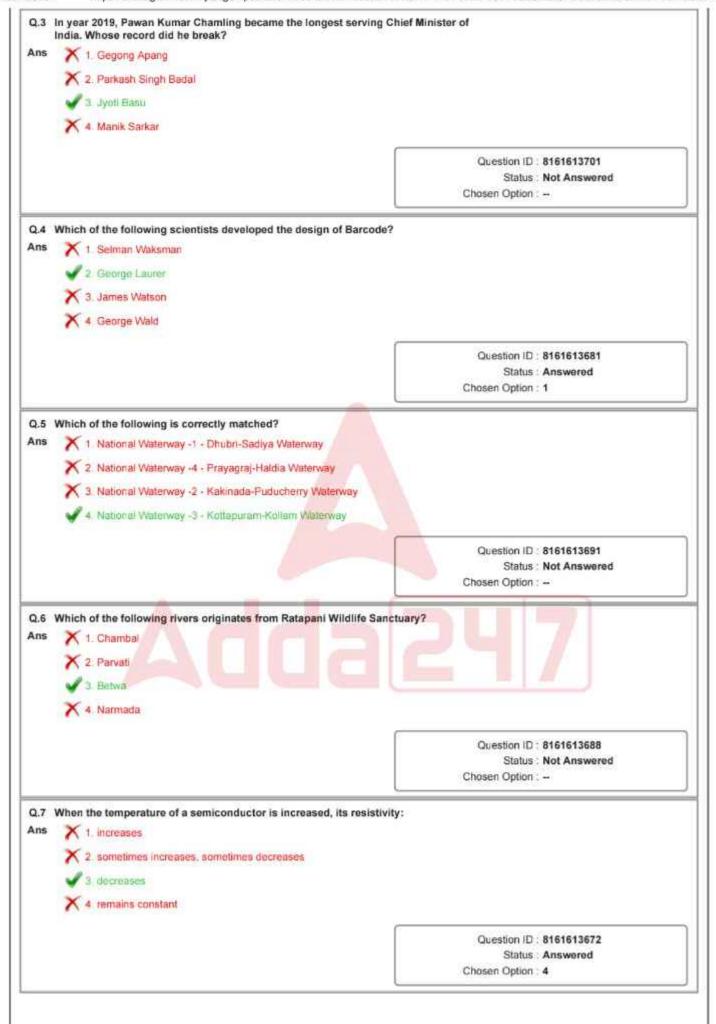
AYBZ, CWDX, EUFV, ?

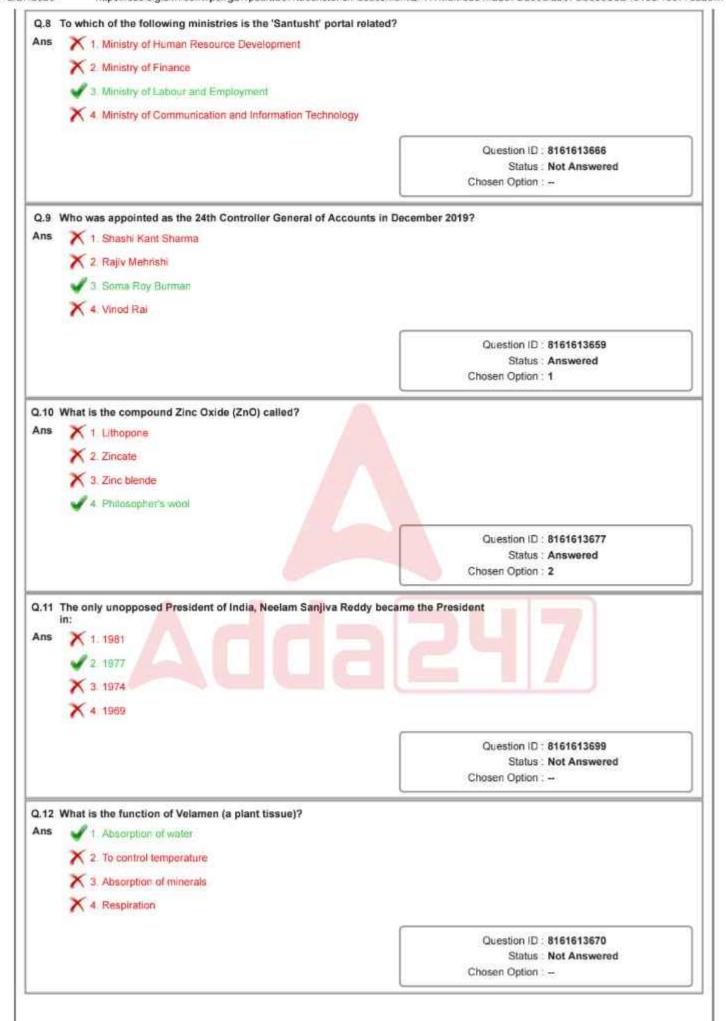
Ans

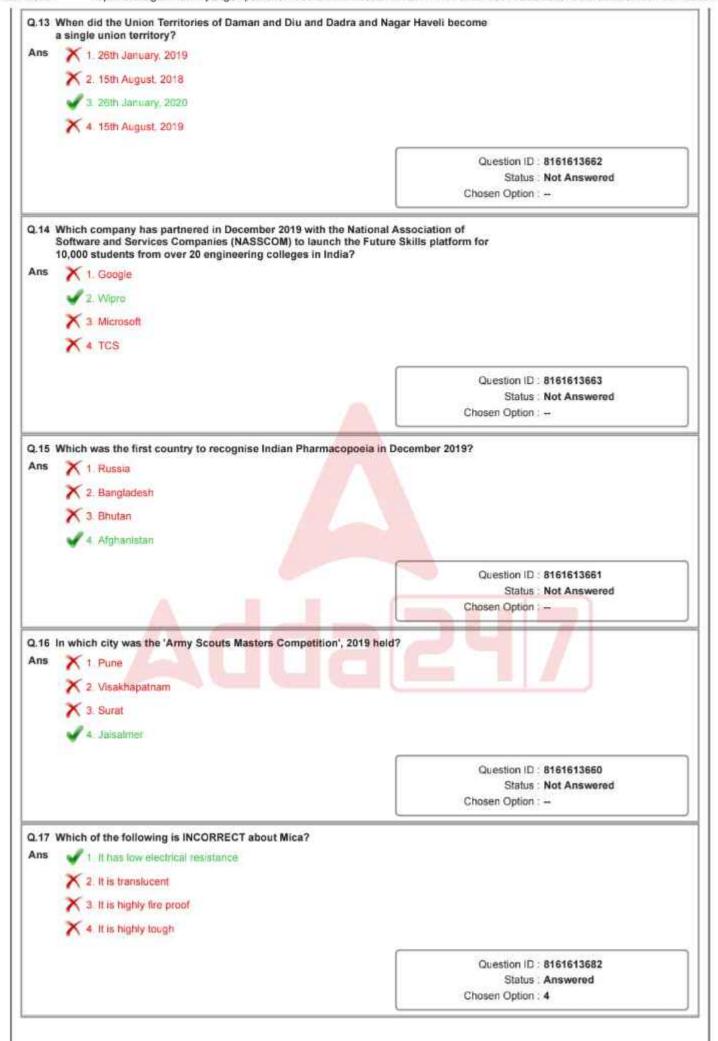
- X 2 GHST
- X 3 TSHG
- X 4 THSG

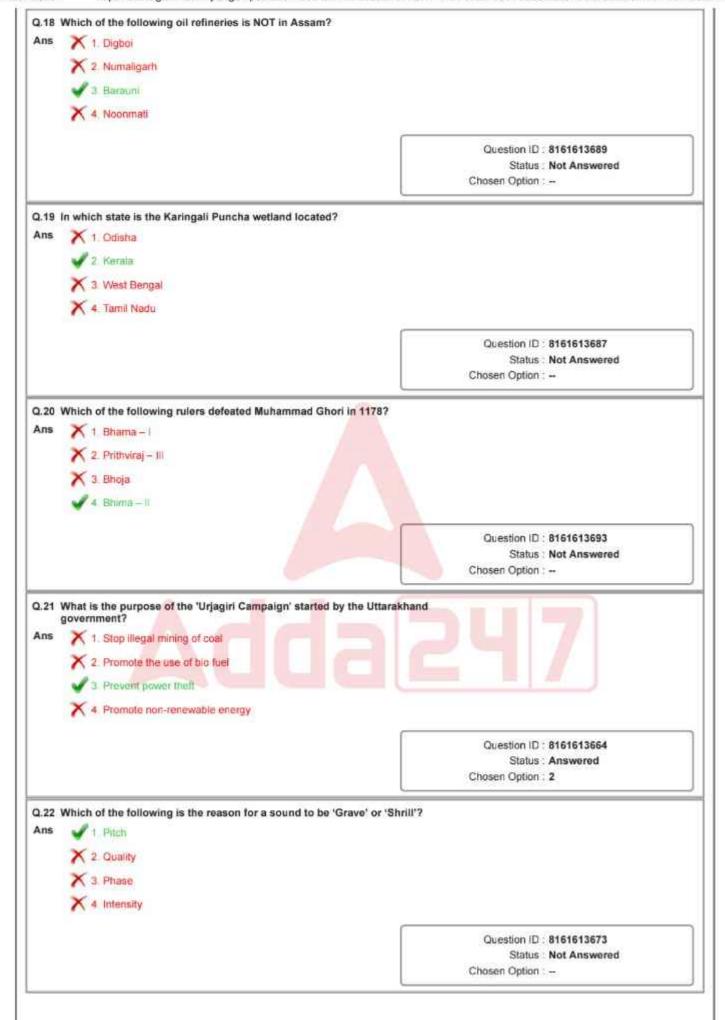
Question ID: 8161613610 Status: Answered

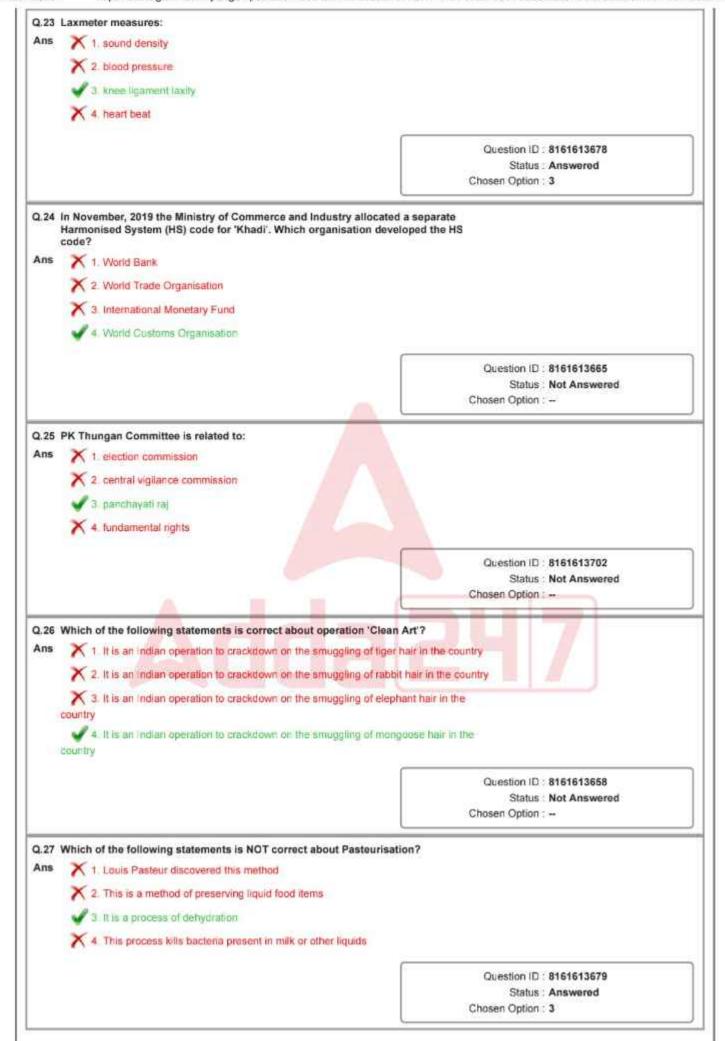
Q.49 Select the letter that can replace the question mark (?) in the following series. C.H.O.X .? Ans XIJ X2 L X 3 K /4 I Question ID: 8161613607 Status : Answered Chosen Option: 4 Q.50 In a code language, if 'STEM' is coded as '21182219741512' then how will 'SKIN' be coded in the same language? Ans X 1 211813011181613 X 2 211813101131613 X 3 211813110181613 4 211813101181613 Question ID: 8161613627 Status: Answered Chosen Option: 3 Section: General Awareness Q.1 Which of the following enzymes is found in human tears due to which bacteria die? X 1. Amylase X 2. Trypsin 3 Lynazyme 4. Lipases Question ID: 8161613669 Status: Answered Chosen Option: 3 Q.2 The archaeological site Daimabad of the Indus Civilisation is situated on the banks of the river: Ans X 1 Banas 2 Narmada 3 Krishan 4 Prayara Question ID: 8161613695 Status: Not Answered Chosen Option : --

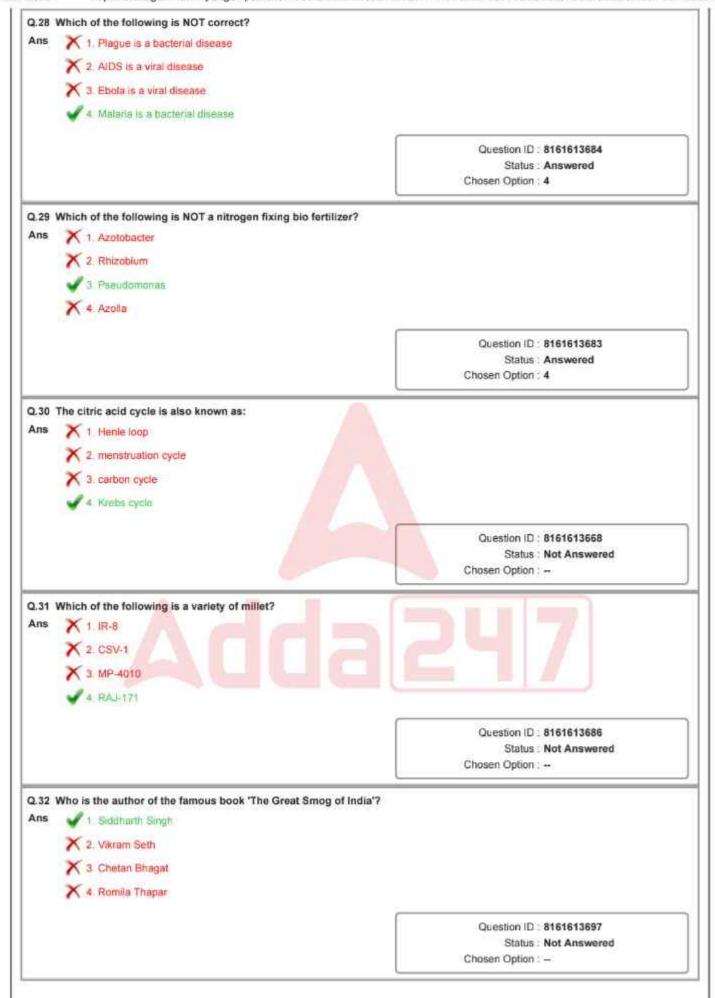


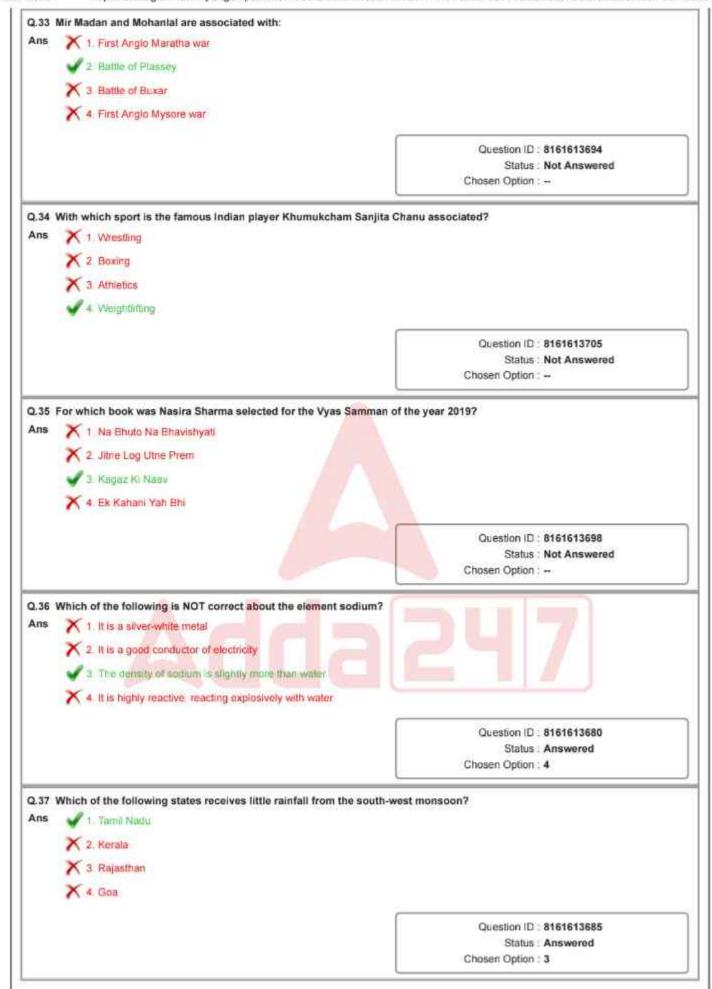


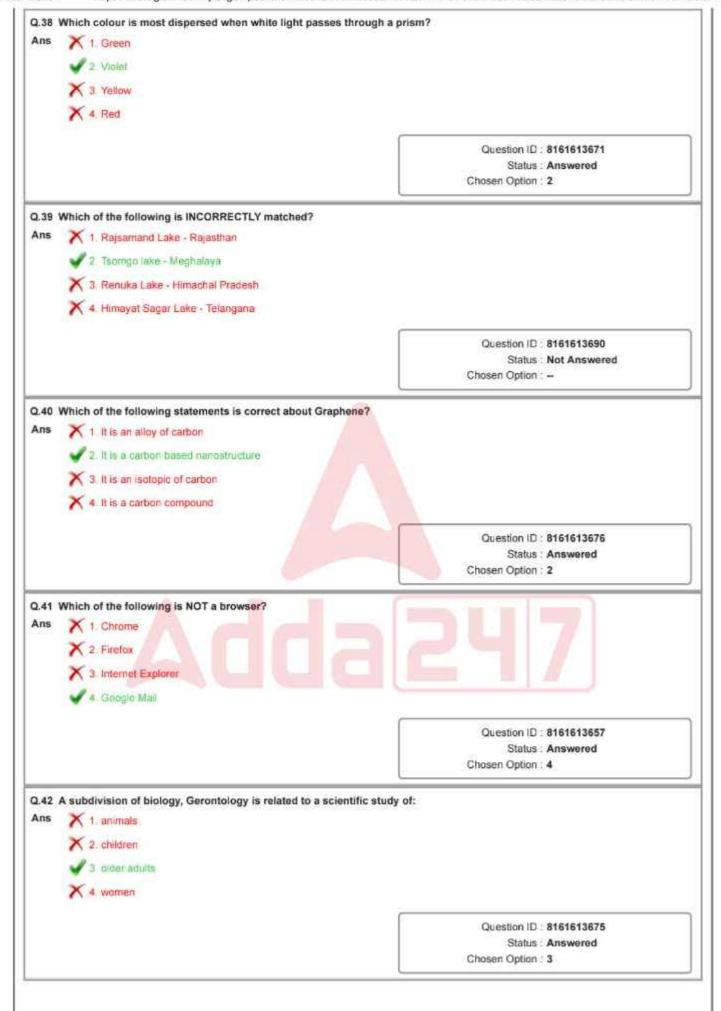




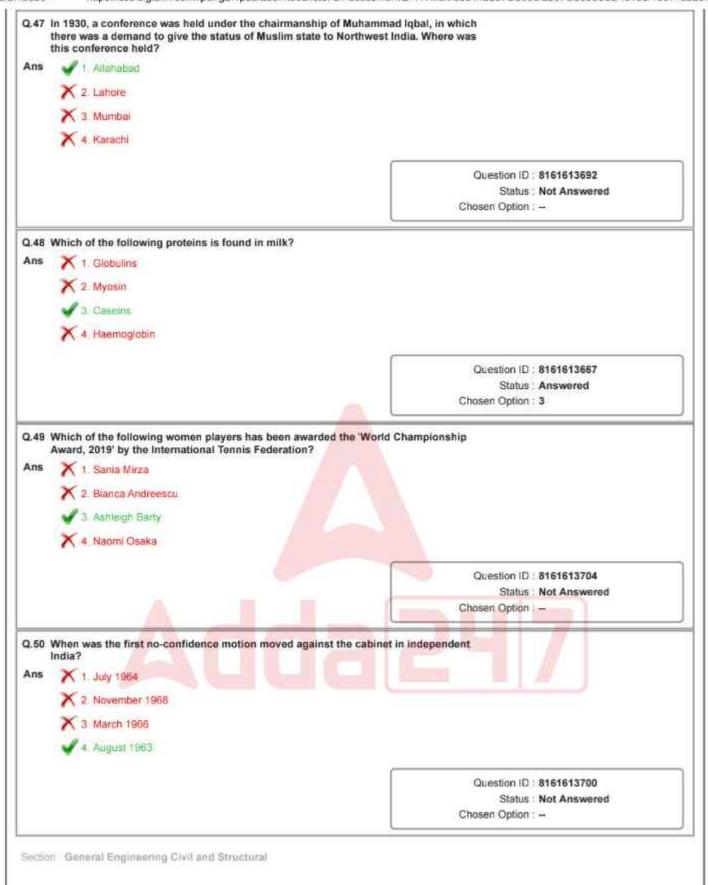








43 Which of the following crops is related to Karnal b	unt disease?
ns X 1. Maze	
X 2 Pea	
3. Wheat	
X 4 Rice	
	Question ID : 8161613674
	Status : Not Answered
	Chosen Option :
0.44 Which of the following Articles is related to the pri	vileges of Members of Parliament?
Ins 1 Article 105	
X 2. Article 129	
X 3. Article 170	
X 4. Article 194	
	TA COSHIO MATERIA DA CANADA
	Question ID : 8161613703 Status : Not Answered
	Chosen Option:
2.45 Arrange the following events in chronological order	er and select the correct option from
those given below.	
1. Death of Chandrashekhar Azad	
Kakori Conspiracy Formation of Indian National Army by Mohan Si	ngh
	ngh
Kakori Conspiracy Formation of Indian National Army by Mohan Sir The Champaran Satyagraha	ngh
Kakori Conspiracy Formation of Indian National Army by Mohan Side. The Champaran Satyagraha	ngh
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Sid 4. The Champaran Satyagraha Ans 1. 4-2-3-1 2. 2-4-3-1	ngh
Kakori Conspiracy Formation of Indian National Army by Mohan Side. The Champaran Satyagraha 1.4-2-3-1	ngh
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Sid 4. The Champaran Satyagraha Ans 1. 4-2-3-1 2. 2-4-3-1	ngh
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Sid 4. The Champaran Satyagraha Ans 1. 4-2-3-1 2. 2-4-3-1 3. 4-2-1-3	ngh
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Sid 4. The Champaran Satyagraha Ans 1. 4-2-3-1 2. 2-4-3-1 3. 4-2-1-3	Question ID : 8161613696
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Sid 4. The Champaran Satyagraha Ans 1. 4-2-3-1 2. 2-4-3-1 3. 4-2-1-3	
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Sid 4. The Champaran Satyagraha Ans 1. 4-2-3-1 2. 2-4-3-1 3. 4-2-1-3	Question ID : 8161613696
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Side. 4. The Champaran Satyagraha X1. 4 - 2 - 3 - 1 X2. 2 - 4 - 3 - 1 X3. 4 - 2 - 1 - 3 X4. 2 - 4 - 1 - 3	Question ID : 8161613696 Status : Not Answered
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Side. 4. The Champaran Satyagraha Ins	Question ID : 8161613696 Status : Not Answered
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Side. 4. The Champaran Satyagraha X1. 4 - 2 - 3 - 1 X2. 2 - 4 - 3 - 1 X3. 4 - 2 - 1 - 3 X4. 2 - 4 - 1 - 3	Question ID : 8161613696 Status : Not Answered
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Side. 4. The Champaran Satyagraha Ins	Question ID : 8161613696 Status : Not Answered
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Side. 4. The Champaran Satyagraha Ins. 1. 4 - 2 - 3 - 1 2. 2 - 4 - 3 - 1 3. 4 - 2 - 1 - 3 4. 2 - 4 - 1 - 3 1. 4 multiplication technique 2. a modulation technique	Question ID : 8161613696 Status : Not Answered
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Side. 4. The Champaran Satyagraha Ins	Question ID : 8161613696 Status : Not Answered
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Side. 4. The Champaran Satyagraha Ins	Question ID : 8161613696 Status : Not Answered
2. Kakori Conspiracy 3. Formation of Indian National Army by Mohan Side. 4. The Champaran Satyagraha Ins	Question ID : 8161613696 Status : Not Answered
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https://ssc.digialm.com//per/g27/pub/2207/touchstone/AssessmentQPHTMLMode1//2207O2093/2207O2093S8D43108/160778220... Q.1 The area of a plan of an old survey plotted on a sheet is found to have shrunk so that a line originally 10 cm long now measures 9.7 cm only. Calculate the shrinkage factor. Ans 1 0.97 2 9.7 X 3. 97 X 4 1.03 Question ID: 8161613738 Status: Answered Chosen Option: 1 Q.2 The gross communded area for a distributary is 12000 bectures, culturable commund area in Kharif and Rabi sesson is 3554.4 bectures, and 2369.9 bectures, respectively. If the average duty at the head of the distributory is 2150 becture per comes for rabi season and 1900 hectars per comes for kharif season, then determine the discharge required at the head of the distributary from average demand consideration (nearest to closest value): Ans √ 1 1.49 cumecs X 2 1.10 cumecs X 3 1.29 cumecs X 4 1.25 cumecs Question ID: 8161613762 Status: Not Answered Chosen Option: --A road embankment 10 m wide at the formation level with side slopes 2:1 and with average height of 5 m is constructed with an average gradient 1:46 from the contour 220 m to 280 m. Find the volume of earth work. Ans X 1 6,40,000 m³ ×2 1,40,000 m³ X 3, 3,40,000 m³ ✓ 4 2,40,000 m³ Question ID: 8161613737 Status: Not Answered Chosen Option: --The maximum allowable vertical deflection under live load for a cantilever member supporting brittle cladding in an industrial building is: Ans X 1 Span / 240 X 2 Span / 180 X 3 Span / 120 √ 4 Span / 150

> Question ID: 8161613800 Status: Not Answered

Q.5 According to IS 456-2000, nominal cover for reinforcements in case of footings, under 'very severe' exposure:

shall not be less than 30 mm

X 2 shall not be less than 25 mm

* shall not be less than 40 mm

Question ID: 8161613795 Status: Not Answered

Chosen Option: --

Q.6 A shear box test was performed to give the following results for a cohesive soil sample.

Result :	(1)	(2)
Normal stress $\sigma \left(kN/m^2\right)$	150	250
Shear stress at failure τ (kN/m^2)	110	120

The values of c and $\tan \phi$ are:

Ans

$$\checkmark$$
 tan $\phi = 0.1$ and $c = 95 \text{ kN/m}^2$

$$\times$$
 2 tan $\phi = 0.8$ and c = 70 kN/m²

$$\times$$
 3 tan $\phi = 1.0$ and $c = 108 \text{ kN/m}^2$

$$\times$$
 4 tan $\phi = 1.2$ and c = 108 kN/m²

Question ID: 8161613744

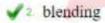
Status: Answered

Chosen Option: 1

Q.7 The phenomenon in which clay is made loose and any ingredient to be added to it is spread out on top and turned up and down in a vertical direction is known as:

Ans

× 1 weathering



X 3 tempering

X4 cleaning

Question ID: 8161613708

Status: Answered

- Q.8 Consider the given statements with respect to unburnt or sun dried bricks.
 - a. Unburnt or sun dried bricks can be used only in the construction of temporary and cheap structures.
 - b. Unburnt or sun dried bricks should NOT be used at the places exposed to heavy rains.

Identify the correct statement's.

Ans

- Both the statements are true.
- X 2 Both the statements are false.
- X 3. Statement a is false and statement b is true.
- Statement a is true and statement b is false.

Question ID: 8161613712

Status : Answered

Chosen Option: 1

The partial safety factor for loads to be adopted for Dead load (DL) and Live load (LL) for the combination of load taken as (DL + LL), under limit state of collapse, as per IS 456:2000, are _____ and _____ respectively,

Ans

- X 1 1.2; 1.5
- X 2. 1.5; 1.2
- X 3. 1.2; 1.2
- V 4 1.5; 1.5

Question ID: 8161613796

Status : Answered

Chosen Option: 4

Q.10 Match the following qualities (List 1) with the tests that are done to uncertain these qualities (List 2) with respect to bricks (includes different classes).

List I	List 2
A) Hardness	Pressing the brick till it breaks.
B) Water absorption	ii) No impression should be left on the surface of the brick
C) Soundness	iii) Not more than 20% of weight of dry brick.
D) Compressive strength	iv) Should give clear ringing sound

Ans

$$X \vdash A \rightarrow ii, B \rightarrow i, C \rightarrow iv, D \rightarrow iii$$

$$\times$$
 2. A \rightarrow ii, B \rightarrow iii, C \rightarrow i, D \rightarrow iv

$$\times$$
 3 A \rightarrow i, B \rightarrow ii, C \rightarrow iv, D \rightarrow iii

$$\checkmark$$
 A \rightarrow ii, B \rightarrow iii, C \rightarrow iv, D \rightarrow i

Question ID: 8161613714

Status: Answered

Q.11 A soil has bulk unit weight of 20 kN/m² and water content of 17%. Calculate the water content if the soil particle dries to a unit weight of 19 kN/m² and the void ratio remains constant. (Give the answer rounded to the nearest integer value,)

Ans

X 1. 20%

X 2 15%

X 3 8%

4 11%

Question ID: 8161613745 Status : Answered Chosen Option: 2

- Q.12 A certain crop is grown in an area of 3000 bectares which is fed by a canal system. The data pertaining to irrigation is as
 - 1. field capacity of soil = 29%
 - 2. optimum moisture = 17%
 - 3. effective depth of root zone = \$0 cm
 - 4. relative density of soil = 1.302

If the frequency of irrigation is 10 days and permanent wilting point = 10%, then find the daily consumptive use

Ans

X 1. 12.5 cm

X 2 125 cm

X 3 0.125 cm

✓ 4 1.25 cm

Question ID: 8161613761 Status Not Answered

Chosen Option: --

Q.13 The exertion of biochemical oxygen demand (BOD) by microorganisms is called:

Ans

- transpiration
- X 2 eutrophication
- X 4 reoxygenation

Question ID : 8161613774 Status: Answered Chosen Option: 3

Q.14 A cantilever beam of size 300 mm = 550 mm with 3 bars of 12 mm diameter in tension zone, has a span of 3 m, adopt M20 concrete and Fe500 grade steel. The depth of neutral nois is ______ (assume clear cover as 25 mm).

Ans

√ 1 68.27 mm

X 2. 259.5 mm

X 3 415 mm

X 4 121.5 mm

Question ID: 8161613799

Status: Not Answered

https://ssc.digialm.com//per/g27/pub/2207/touchstone/AssessmentQPHTMLMode1//2207O2093/2207O2093S8D43108/160778220... Q.15 Calculate the about strength in terms of effective stress soil on a plane within a suturated soil mass at a point where the total normal stress is 295 kPa and pore water pressure is 120 kPa when c" = 12 kPa and angle of internal friction is 30°. (take tan30 = 0.578) Ans X 1 75.68 kPa √ 2 113.15 kPa X 3 135.64 kPa X 4 85.06 kPa Question ID: 8161613747 Status : Answered Chosen Option: 2 Q.16 A simply supported beam of span 6 in carries an ultimate UDL of 25 kN/m. The plastic moment capacity of the same is Ans X 1 146.85 kN-m ✓ 2 112.5 kN-m X 3 102.5 kN-m X 4 125.45 kN-m Question ID: 8161613804 Status: Answered Chosen Option: 2 Q.17 The flow ratio of a Francis turbine, if it is working under a head of 62 m and velocity at inlet 7 m/s (g = 10m/s²) is: Ans X 1. 0.3 ¥2 0.2 X 3. 0.1 X 4 0.4 Question ID: 8161613752 Status: Not Answered Chosen Option : --Q.18 The overall efficiency of a centrifugal pump when head is 25 m, discharge = 0.04 m³/s and output power p = 16 kW (take $g = 10 \text{ m/sec}^2$ and $\rho = 1000$) is: X 1. 65% Ans X 2 55% X 3 52.5% 4 62.5% Question ID: 8161613753 Status: Not Answered Chosen Option : --

Q.19 A water pump is installed in a building at a cost of ₹2,500-. The life of the pump is 15 years. The annual fund required to be deposited to accumulate the whole amount is ____ (take capital recovery factor as 0.05).

Ans

X 1 ₹250/-

X 2 ₹25/-

X 3 ₹625/-√ 4 ₹125/-

> Question ID: 8161613725 Status: Answered Chosen Option: 4

Q.20 The area of jet and velocity of jet are 0.02 m² and 75 m/s, respectively and the total discharge through a pelton turbine is 3 m³/s. What are the number of jets required?

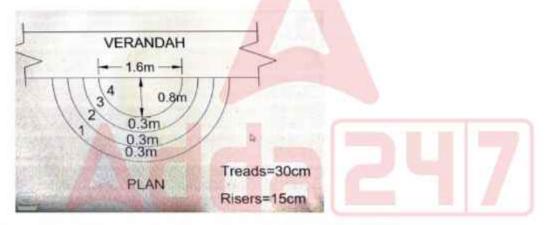
Ans

X 1.1

Question ID: 8161613751 Status: Not Answered

Chosen Option: --

Q.21 Observe the given figure and answer the question that follows.



The radius of the circular steps in the order from 1st to 4th step is:

Ans

X 1.41 m, 1.11 m, 0.81 m, 1.71 m

√ 2 1.7 m, 1.4 m, 1.1 m, 0.8 m

X 3 0.81 m, 1.11 m, 1.41 m, 1.71 m

X 4 0.8 m, 1.4 m, 1.1 m, 1.7 m

Question ID: 8161613723

Status : Not Answered

https://ssc.digialm.com//per/g27/pub/2207/touchstone/AssessmentQPHTMLMode1//2207O2093/2207O2093S8D43108/160778220... Q.22 A residential building is constructed at a cost of ₹1,75,000. The total outgoing including sinking fund is ₹11,500. per manum. If the owner desires 5% return on construction, then the gross mouthly rent of the property is: Ans √ 1 ₹1,687.50 × 2 ₹8,750.00 X 3 ₹20,250,00 X 4 ₹730.00 Question ID: 8161613729 Status: Answered Chosen Option: 1 Q.23 If g1 = -1.2% and g2 = 0.8% and rate of change of grade = 0.1% per 20 m chain, then the length of the vertical curve is: X 1 10 chains X 2 15 chains X 3 30 chains 20 chains Question ID: 8161613739 Status: Not Answered Chosen Option: -is an instrument that is used to detect the presence of specific volatile organic compounds, such as gasoline, Q.24 and methane in a landfill, through the use of shallow boreholes. Ans electrical resistivity meter X 2 ground probing radar X 3 geo magnetics photoionisation meter Question ID: 8161613780 Status : Not Answered Chosen Option: --Q.25 According to Power's formula the theoretical compressive strength of sample of concrete with get space ratio 0.59 in: X 1 97.24 MPa √ 2 49.29 MPa X 3 57.2 MPa X 4 78.84 MPa Question ID: 8161613793 Status: Not Answered

Q.26 If the latitude and departure of a survey line are negative, then the direction of mentioned lines in whole circle bearing system will be in the range of:

Ans

X 1. 90° to 180°

√ 2 180° to 270°

X 3 0° to 90°

X 4 270° to 360°

Question ID: 8161613733

Status: Answered

Chosen Option: 2

Q.27 Select the correct match for the given information.

 Regulatory signs 	A. prohibitory signs, restriction end signs, stop and give way signs, etc.
2. Warning signs	B. cross road, side road right, narrow bridge, etc.
3. Informatory signs	C. parking signs, flood gauge, facility information sign, etc.

Ans

√ 1 1→A, 2→B, 3→C

X 2. 1→A, 2→C, 3→B

X 3. 1→B, 2→C, 3→A

X 4 1→C, 2→A, 3→B

Question ID: 8161613768

Status: Answered

Chosen Option: 4

Q.28 The perpendicular force to flow exerted by a jet on stationary inclined flat plate =

of jet = 20m/s, angle between jet and plate = 60° and area of cross section of jet = 0.01m²

Ans

✓ 1 1732.05 N

X 2 1682.03 N

X 3 1542.05 N

X 4 1563.03 N

Question ID: 8161613756 Status : Not Answered

Chosen Option: -

Q.29 For a certain soil, the angle of internal friction is 30°. The coefficient of active and passive pressure, respectively, will be:

Ans

X 1. 0.5, 0.8

X 2 0.4, 1.2

X 3 0.6, 2.4

4 0.33, 3

Question ID: 8161613743

Status: Answered

- Q.30 Calculate the theoretical capacity (C) of a traffic lane with one-way traffic flow for the given data.
 - 1. Traffic flow at a stream speed = 40 km/h
 - 2. Average centre to centre spacing of vehicles = 12.8 m

Ans

- X 1 312.5 vehicles / hour / lane
- 3125 vehicles / hour / lane
- X 3 3.125 vehicles / hour / lane
- × 4 31.25 vehicles / hour / lane

Question ID: 8161613769

Status : Answered

Chosen Option: 2

Q.31 Calculate the plastic section modulus of a beam which is experiencing a maximum bending moment of 590.63 kN-m (take partial safety factor as 1.10 and yield strength of steel as 250 N/mm²).

Ans

- X 1 2246.64 cm³
- X 2 1568,16 cm3
- × 3 1856.15 cm³
- ✓ 4 2598,77 cm³

Question ID: 8161613805

Status: Not Answered

Chosen Option: --

Q.32 Deval Attrition Test is used to determine which of the following?

Ans

- Aggregate abrasion value
- X 2 Aggregate impact value
- X 3 Aggregate roughness value
- × 4 Aggregate crushing value

Question ID: 8161613789

Status : Answered

Chosen Option: 1

Duty on capacity is also known as:

Ans

- X 1 nominal duty
- X 2 capacity factor
- √ 3 full supply coefficient
- X 4 root zone depth

Question ID: 8161613764

Status : Answered

https://ssc.digialm.com//per/g27/pub/2207/touchstone/AssessmentQPHTMLMode1//2207O2093/2207O2093S8D43108/160778220... Q.34 The back sight at a station A is 0.865 m and the height of instrument is 561.365 m. The reduced level at A will be (in unit m): Ans X 1 559.260 ¥2 560,500 X 3 560.550 X 4 558,705 Question ID: 8161613734 Status : Answered Chosen Option: 2 Slope = area of BMD/EI, is the relation given by: Ans √¹ Mohr's first theorem × 2 Mohr's second theorem X 3 Castigliano's theorem Macaulay's theorem

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Ma Question ID: 8161613783 Status: Answered Chosen Option: 2 Q.36 A single rolling load of 40 kN rolls from left end along a simply supported girder of span 20 m. The absolute maximum positive and negative shear force, respectively are: Ans 1 14Kn and -26kN √ 2 40Kn and -40kN 3 26Kn and -14kN 4 20Kn and –20kN Question ID: 8161613785 Status : Answered Chosen Option: 2 Q.37 In setting up a plane table at a station A, the corresponding point on the plan was NOT accurately centred above A. If displacement of A was 20 cm in direction at right angles to the vay, then how much on the plan would be consequent displacement of a point from its true position of scale is 1 cm = 2 m/? Ans X 1 0.03 mm X 2 2 mm 3 1 mm X 4 0.4 mm

> Question ID: 8161613735 Status: Not Answered

Q.38 Which of the following factors does NOT affect permeability of soil?

Ans

√ ¹ Volume of soil

Grain size of soil particles

✗ 3 Properties of pore fluid

X 4 Void ratio

Question ID: 8161613741 Status : Answered Chosen Option: 1

Q.39



Degree of kinematic indeterminacy of the given beam is:

Ans X 1. 0

X 2 3

X 3. 1

Question ID: 8161613782 Status: Answered Chosen Option: 3

Q.40 Which among the following is NOT a Bogue's compound present in cement?

Ans

√ 1 4 CaO.SiO₂.Fe₂O₃

X 2. 3 Cao.Al₂O₃

X 3 CaO.SiO₂

X 4 4 CaO.Al₂O₃.Fe₂O₃

Question ID : 8161613788

Status : Answered

Chosen Option: 1

Q.41 Calculate the lag distance for design speed of 47 km/h for two-way traffic on a single-lane road (assume coefficient of friction as 0.38 and reaction time of driver as 2.5 seconds).

Ans

X 1 32.64 m

X 2 111.04 m

X 3 55.52 m

4 65.28 m

Question ID: 8161613772

Status: Answered

Q.42 When calcium sulphate attacks on calcium aluminate hydrate present in concrete, it produces:

1 calcium hydroxide

X 2 asphalt

X 3 anthracite

4. ettringite

Question ID : 8161613790 Status : Answered Chosen Option: 1

Q.43 As per IS 456-2000, the limiting value of the depth of neutral axis(x_{tamax}/d) for fe415 grade steel is:

Ans

X 1 0.46

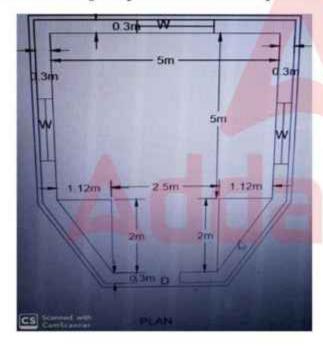
₹2 0.48

X 3 0.53

X 4 0.39

Question ID: 8161613798 Status: Answered Chosen Option: 2

Q.44 Observe the given plan and answer the question that follows.



Total centre line length of walls in the plan is:

X 1 20.08 m

X 2 19.87 m

3 28.08 m

23.08 m

Question ID: 8161613722 Status: Not Answered

Q.45 Bowditch rule is also termed as:

Ans

X 1 transit rule

X 2 axis rule

X 3 graphical rule

4 compass rule

Question ID: 8161613730 Status: Answered Chosen Option: 3

Q.46 According to Terzaghi and Peck, the ratio of D15 size of filter material to the D85 size of the base material should be:

Ans

X 1. < 10

12 <4

X 3 < 25

X 4. < 15

Question ID: 8161613742 Status : Not Answered

Chosen Option: --

- Q.47 Study the given statements with respect to soak pits and choose the correct option.
 - 1. Soak pits are preferable at locations, where the water table level is high.
 - 2. Soak pits are preferable at locations where soil is porous.

Ans

- X 1 Both the statements are true
- √ 2 Statement 1 is false and statement 2 is true
- X 3 Statement 1 is true and statement 2 is false
- X 4 Both the statements are false

Question ID: 8161613779 Status : Answered

Chosen Option: 1

Convert 122°30' whole circle bearing into quadrant bearing.

Ans

X 1. N57°30'E

X 2. S57°30'W

X 3 N57°30'W

✓ 4 S57°30'E

Question ID: 8161613731 Status: Answered

Q.49 Measure of the degree at which water losses its transparency due to the persence of suspended particulates is termed as: X 1 coagulation X 2 sedimentation X 3 flocculation 4 turbidity Question ID: 8161613777 Status: Answered Chosen Option: 4 A soil sample has porosity 25%. Calculate its void ratio. Ans X 1. 3.00 **₹**2 0.34 X 3 0.65 X 4 0.46 Question ID: 8161613740 Status : Answered Chosen Option: 2 Q.51 The dimension for angular velocity is: Ans X 1. T-2 X 2 13T X3 LT3 ✓ 4 T-1 Question ID : 8161613748 Status Answered Chosen Option: 4 Pascal's law says that the: Ans intensity of pressure at a point in a fluid at rest cannot be determined intensity of pressure at a point in a fluid at motion is equal in magnitude in all directions intensity of pressure at a point in a fluid at rest is equal to zero intensity of pressure at a point in a fluid at rest is equal in magnitude in all directions Question ID: 8161613754 Status : Answered Chosen Option: 4

https://ssc.digialm.com//per/g27/pub/2207/touchstone/AssessmentQPHTMLMode1//2207O2093/2207O2093S8D43108/160778220... Q.53 In which type of transportation survey, the vehicles are stopped on a sampling basis and information is collected on the type of vehicle, origin, destination, trip purpose, etc? Ans Roadside interview survey X 2 Taxi survey X 3 Tags on vehicles X 4 Registration number plate survey Question ID: 8161613766 Status: Answered Chosen Option: 1 Q.54 In the design of structures, an additional lateral load considered, to account for the initial imperfections of the structure Ans X 1 damping load 2 notional load X 3 frictional drag load X 4 rotational load Question ID: 8161613801 Status: Answered Chosen Option: 2 Q.55 FIELD CAPACITY READILY AVAILABLE MOISTURE OPTIMUM MOISTURE ILTING COEFFICIENT The given figure represents X 1 furrow method of irrigation X 2 classes of soil water X 3 base flow of water 4 frequency of irrigation Question ID: 8161613758 Status: Answered Chosen Option: 4 Q.56 In which type of traffic signal system do signals along a given road shows the same indication (green, red. etc.) at the same time? Ans X 1 Alternative system X 2 Flexible progressive system Simultaneous system

X 4 Simple progressive system

Question ID: 8161613767 Status: Answered

- Q.57 Comider the given statements with respect to most economic sections of a rectangular channel and select the correct
 - A. Discharge shall be maximum
 - B. Wetted perimeter shall be minimum

Ans

- Both the statements are true
- X 2 Statement A is false and statement B is true
- X 3 Statement A is true and statement B is false
- X 4 Both the statements are false

Question ID : 8161613749 Status : Answered

Chosen Option: 1

Q.58 Which type of irrigation is practiced when the water supply is at too low a level to run by gravitation of the land?

Ans

- Lift irrigation
- X 2 River canal irrigation
- X 3 Flow irrigation
- X 4 Inundation irrigation

Question ID: 8161613757 Status : Answered

Chosen Option: 1

Q.59 A very small amount of _____ is useful in making sound cement. If it is in excess, it causes the cement to become

Ans

- X 1 iron oxide
- X 2 silica
- √³ sulphur
- X 4 alkali

Question ID: 8161613711

Status : Answered

Chosen Option: 3

Q.60 According to IS 456-2000, under limit state of collapse, the maximum compressive strain in concrete in axial compression is taken as:

Ans

- X 1 2.00
- X 2 0.02
- X 3. 0.2
- 4 0.002

Question ID: 8161613794

Status: Answered

2.61	For thin slabs and walls, the maximum size of coarse aggregates should be lin concrete section.	nited to the thickness of the	
Ans	★ ¹ one-third ✓ ² one-fourth		
	X 3 two-third		
	X 4 three fourth		
	The state of the s		
		Question ID : 8161613710 Status : Not Answered	
		Chosen Option : -	
.62	Consider the statements with respect to degree of accuracy in estimating.		
	Assertion (A): The accuracy to be observed in preparing an estimate depend payment.	s on the rate of the item and unit of	
	Reason (R): The higher the rates the greater should be the accuracy with wh	ich the quantities are calculated.	
Ans	√ 1.		
	Both A and R are true and R is the correct explanation of A.		
	X 2		
	Both A and R are true and R is not the correct	t explanation of A.	
	X 3 A is true but R is false.		
	X 4 A is false but R is true.		
	The second of th		
		Question ID : 8161613721 Status : Answered	
		Chosen Option : 3	
.63	The height of the sample sand to be tested = 20 cm and the height of the saturate and	and = 16 cm. Find the busking of	
ins	X 1 20%		
	X 2 55.5%		
	✓ 3. 25%		
	X 4 80%		
		Question ID : 8161613709 Status : Answered	
		Chosen Option : 1	
1.64	A simply supported beam of span 6 m is resting on a 230 mm wide brick wall. Ass span, and also assume width of the beam equals width of the support. The factored	The first of the f	
ns	X 1. 21.11 kN	CONSERVO ON CONTRACTOR	
	✓2 26.39 kN		
	X 3 17.6 kN		
	× 4 30.2 kN		
		Question ID : 8161613797	
		Status : Not Answered	
		Chosen Option :	

	× 2 moisture equivalent	
	X 3 pooling capacity → 3 pooling capacity	
	capillary potential	
		Question ID : 8161613763
		Status : Not Answered Chosen Option :
22	TOWN WE SEE THE THE THE TWO TO SEE	V
	A three-hinged parabolic arch has a span of 30 m and the central rise is 5 m. It is distance of 20 m from the right hinge. Calculate the vertical reaction component	(2) 7(4)(9)(4,5)(7)(1)(2)(1) (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4
S	X 1 35.35 kN	
	× 2 40 kN	
	× 3 13.13 kN	
	✓ 4 26.67 kN	
		Question ID : 8161613787
		Status : Not Answered Chosen Option :
	Calculate the number of M20 bolts required to connect the flange of an ISSC 20 is carrying a reaction of 140 kN due to factored loads (take strength of bolt us 45 1 6	
2000	X 2 2	
	X38	
	X 3 8	Ouestion ID: 8161613802
	X 3 8	Question ID : 8161613802 Status : Not Answered Chosen Option :

2020	https://ssc.digialm.com//per/g27/pub/2207/touchstone	e/AssessmentQPHTMLMode1//2207O2093/2207O2093S8D43108/160778
2.69	A cantilever beam of length L meters is subjected to uniformly varying load, varying from 0 kN/m at free end to W kN/m at fixed end. The deflection at the free end is (take E as modulus of elasticity of material used and I as moment of inertia of the section).	
Ans	$\sqrt{1 \frac{WL^4}{30EI}}$	
	$\times 2 \frac{WL^4}{45EI}$	
	\times 3 $\frac{WL^5}{385EI}$	
	\times 4 $\frac{WL^3}{60EI}$	
		Question ID : 8161613784 Status : Answered Chosen Option : 1
70	The horizontal angle made by the survey line with reference to arbitrary merid is called:	finn passing through one of the extremities
Ans	★ 1 magnetic bearing	
	★ 2 true bearing	
	★ arbitrary meridian	
		Question ID : 8161613732 Status : Answered Chosen Option : 3
71	According to IS 1077-1992, the average compressive strength of burnt c	:lay bricks with class designation 15 is:
ns	× 1. 15 kN/mm ²	
	× 2 15 N/m ²	
	× 3 15 kN/m ²	
	✓ 4 15 N/mm ²	
		Question ID : 8161613717 Status : Answered
		Chosen Option : 4
72	As per IS 456-2000, calculate the flexural strength of concrete whose character	eristic compressive strength is 36 N/mm².
18	✓ 1 4.2 N/mm ²	esponential Angle in the Control of Angle in the Control of Contro
	×2 2.4 N/mm ²	
	X 3 3.5 N/mm ²	
	×4 6.5 N/mm ²	
		Question ID : 8161613792 Status : Answered

https://ssc.digialm.com//per/g27/pub/2207/touchstone/AssessmentQPHTMLMode1//2207O2093/2207O2093S8D43108/160778220... Q.73 A vehicle has wheel base of 5.5 m. What is the off tracking negotiation of a curved path with a mean radius of 31.5 m? (take width of povement as 3.5 m) Ans ✓ 1 0.48 m X 2 0.96 m X 3 0.17 m X 4 0.087 m Question ID: 8161613770 Status: Not Answered Chosen Option: --Q.74 A property fetches a net annual income of ₹3000/- deducting all outgoings. Calculate the capitalised value of the property if the rate of interest is 9% per annum. Ans 1 ₹33,333,34 X 2 ₹45,648.67 X 3 ₹59,671.58 X 4 ₹3,240.00 Question ID: 8161613728 Status: Not Answered Chosen Option: --Q.75 In the construction industry, contractor's profit is included in Ans unit rate of items X 2 specifications ★ 3 work charged establishments X 4 contingencies Question ID : 8161613726 Status : Answered Chosen Option: 3 Q.76 What is the full form of CETP? ✓ ¹ Common Effluent Treatment Plant X 2 Common Environment Treatment Plant X 3 Concave Environmental Treatment Plant X 4 Combined Effluent Treatment Plant Question ID: 8161613776 Status: Answered Chosen Option: 1

- Q.77 Consider the given statements with respect to bricks.
 - A. Alumina presence in the brick earth imparts plasticity to the brick earth so that it can be moulded for the formation
 - B. If alumina is present in excess, row bricks expand and swell during drying and burning.

Identify the correct statement's.

Ans

- Statement B is true A is false.
- Statement A is true B is false.
- X 3 Both the statements are true.
- A Both the statements are false.

Question ID: 8161613713 Status : Answered

Chosen Option: 2

Q.78 Total width of the pavement on a horizontal circular curve = 7.5 m and the super elevation is 0.06 m. Calculate the magnitudes of raising at outer edge of the pavement with respect to the centre line and inner edge, respectively.

Ans

- X 1 0.225 m; 0.06 m
- X 2 0.06 m; 0.45 m
- √ 3 0.225 m; 0.45 m
- X 4 0.06 m; 0.225 m

Question ID: 8161613773 Status: Answered

Chosen Option: 3

Q.79 In setting time test, the amount of water used in terms of standard consistency (P) is:

Ans

- X 1 1 P
- X 2 0.75 P
- ✓3 0.85 P
- X 4 0.6 P

Question ID: 8161613791 Status: Answered

Chosen Option: 2

Actual cost of the work is calculated:

Ans

- 1 at any stage of the work
- X 2 by just knowing the work to be done
- X 3 during the estimation
- at the time of completion of the work

Question ID: 8161613718

Status: Answered

Q.81 The unit of payment for the earthwork for embankment is:

- X 1 per m²
- ✓ 2 per m³
- X 3 per metre
- X 4 per number

Question ID: 8161613719 Status : Answered

Chosen Option: 2

Q.82 Specific energy of flowing water through a sectangular channel of width 5 m when discharge is 10 m³ n and depth of water is 2 m is:

Ans

- X 1. 1.06 m
- X 2 1.02 m
- √3 2.05 m
- X 4 2.60 m

Question ID: 8161613750 Status : Answered

Chosen Option: 3

Q.83 Which option represents the correct relation between Cc, Cv and Cd?

- Ans V Cd = Cv × Cc
 - X 2 Cv = Cc × Cd
 - X 3 Cc = Cv × Cd
 - X 4 Cv × Cd = 1

Question ID 8161613755

Status : Answered

Chosen Option: 1

Q.84 Precast concrete tiles with marble chips on the surface are known as:

- mosaic tiles
- X 2 lime tiles
- X 3. granite tiles
- X 4 marble tiles

Question ID: 8161613706

Status: Not Answered

Chosen Option : --

Q.85 In ground water, the mindry or cloudy appearance of clay or such other particles that presents handrance to the path of light, in measured by:

Ans

- X 1 screening
- Jackson turbidity meter
- X 3 Steven turbidity meter
- X 4 Nessler's tubes

Question ID: 8161613775 Status : Answered Chosen Option : 2

Q.86 Which of the following statements is are true with respect to rates in the building estimation?

A) The rates for building estimation are usually taken from PWD schedule of rates, with appropriate escalation charges.

B) Rates for different items in the estimate are the current rates for the completion of the items of work.

- N 1 Both the statements are false.
- X 2. Only statement B is true.
- Both the statements are true.
- A Only statement A is true.

Question ID : 8161613720 Status: Answered Chosen Option 3

Q.87 The minimum spacing for M20 bolts, of grade 4.6, according to IS800, is:

Ans

- ✓ 1 50 mm
- X 2 55 mm
- X 3. 33 mm
- X 4 37.4 mm

Question ID 8161613803 Status : Answered

Chosen Option: 1

Q.88 A crop requires a total depth of 96 cm of water for a base period of 2280 hours. Find the duty of water

Ans

- 1 855 hectares/cumec
- X 2 1058 hectares/cumec
- X 3 882 hectares/cumec
- X 4 765 hectares/cumec

Question ID: 8161613759 Status : Answered

https://ssc.digialm.com//per/g27/pub/2207/touchstone/AssessmentQPHTMLMode1//2207O2093/2207O2093S8D43108/160778220... Q.89 Which type of cement it produced by granding clinkers formed by calcining bassite, line, iron oxide with a little ferric oxide, silica magnesia, etc? (Note that alumina content in this type of cement should NOT be less than 32%.) Ans × 1 Coloured cement High alumina cement X 3 Blast furnace cement Acid resistance cement Question ID: 8161613716 Status: Answered Chosen Option: 2 Q.90 A saturated soil has compression index of 0.28, the void ratio at a stress 12 kN/m2 is 2.05 and its permeability is 35x03mm/s. What is the change in void ratio if stress is increased to 21.6 kN/m²? (take log₁₀ (1.8) as 0.255) Ans X 1. 0.0117 X 2 0.0666 X 3 0.0615 4 0.0715 Question ID: 8161613746 Status : Answered Chosen Option: 4 Q.91 Estimate the quantity of concrete required for a 175 mm thick RCC slab over a room of external dimension 4 m = 5 m (including 30 cm wall thickness). Consider 0.2 m projection of slab all around the room. Ans X 1 5.875 m³ X 2 3,452 m³ √3 4.158 m³ X 4 7.656 m³ Question ID: 8161613724 Status: Not Answered Chosen Option: --Q.92 TOKN The force in member AB is ______. (take angle BAC as 60° and angle BCA as 30°) Ans √ 1 5√3 kN compressive × 2 2√3 kN tensile X 3 3√5 kN tensile X⁴ 2√5 kN compressive

> Status: Answered Chosen Option: 1

Question ID: 8161613786

Q.93 The value of structures becomes less by them becoming out of date in style, structure in design, etc. This is termed as: X 1 scrap value X 2 capital cost

X 3 book value

4 obsolescence

Question ID: 8161613727 Status : Answered Chosen Option: 4

Q.94 According to IRC recommendations, what shall be the rounded off value of overtaking sight distance, on a two lane highway for the case in which design speed = 50 km h, time component for overtaking manoeuvre and for opposing vehicle are 10 seconds and 7 seconds, respectively?

Ans

X 1 470 m

✓ 2 235 m

X 3 165 m

X 4 340 m

Question ID: 8161613771 Status: Not Answered

Chosen Option: --

Q.95 Calculate the area of field, when the initial reading = 9.915 and final reading = 4.254 were recorded by a planimeter.

Take, Multiplying constant of instrument (M) = 100 cm², Instrument constant (C) = 23.521 and Number of times the zero mark of the dial passes the fixed index mark of the instrument (N) = 1

Ans

X 1 655.7 cm²

X 2 895.7 cm²

√3 785.7 cm²

X 4 986.5 cm2

Question ID: 8161613736

Status: Not Answered

Q.96 Find the field capacity of a soil for the given data.

- 1. Root zone depth = 2m
- 2. Existing water content = 5%
- 3. Dry density of soil = 20 KN/m^3
- 4. Water applied to the soil = 500 m³
- Water loss due to evaporation and deep percolation = 10%
- 6. Area of plot = 1000 m^2

(Consider unit weight of water = 9.81 KN/m3)

Ans

1 16%

X 2 24%

X 3 20%

X 4 12%

Question ID: 8161613765

Status: Not Answered

Chosen Option: --

Q.97 Calculate the target mean compressive strength at 28 days curing, for M20 grade concrete, an per IS 10262-2009 (take standard deviation as 4 N mm2).

Ans

1 26.6 N/ mm²

X 2 20.0 N/ mm²

X 3 22.4 N/mm²

X 4 28.7 N/ mm²

Question ID: 8161613707

Status: Answered

Chosen Option: 1

Q.98 Chip mark, diagonal grain, torn grain and wane are the defects in timber due to:

Ans

√ 1 conversion

X2 insects

X 3 natural forces

X 4 fungi

Question ID: 8161613715

Status: Answered

Q.99 Unvented heaters in bathrooms and sleeping rooms:

Ans

- X 1 are good aesthetically and for the human health
- cause asphyxiation, carbon monoxide poisoning and death
- X 3 do not affect human health
- 4 improve the efficiency of the heater

Question ID: 8161613778 Status: Answered Chosen Option : 2

Q.100 Consider the given statements with respect to the Environment Protection Act, 1986?

- a. This Act empowers the Union Government to make rules providing standards in regard to which environment pollutants shall NOT be discharged or emitted in the environment in excess.
- b. This Act empowers the Union Government to take direct action against definiters.

Select the correct statement's.

Ans

- Both the statements are true
- X 2 Statement 1 is false and statement 2 is true
- X 3 Statement 1 is true and statement 2 is false
- X 4 Both the statements are false

Question ID: 8161613781 Status: Answered Chosen Option: 1



Junior Engineer Civil Mechanical Electrical and Quantity Surveying and Contract Examination 2019

Exam Date	11/12/2020	
Exam Time	3:00 PM - 5:00 PM	
Subject	Junior Engineer 2019 Civil	

Section: General Intelligence and Reasoning

Q.1 Select the option in which the two words are NOT related in the same way as are the two words in the given word-pair.

Ans

Potassium : Polythene

X 2 Leaves : Tree X 3 Wool : Blanket X 4. Chip : Computer

> Question D: 6549784792 Status: Answered Chosen Option: 4

Q.2 Select the option that is related to the third term in the same way as the second term is related to the first term.

HOCKEY: IPDLFZ:: TRANSFER: 7

Ans

V 1. USBMPGFS

2 USBOTEES

X 3. USBOSGDZ

4 USBOTGFS

Question | D: 6549784794 Status Answered

Chosen Option: 4

Arrange the following words in a meaningful sequence.

a) Dogs b) Rats c) Lion d) Elephant e) Mosquito

Ans X 1 badec

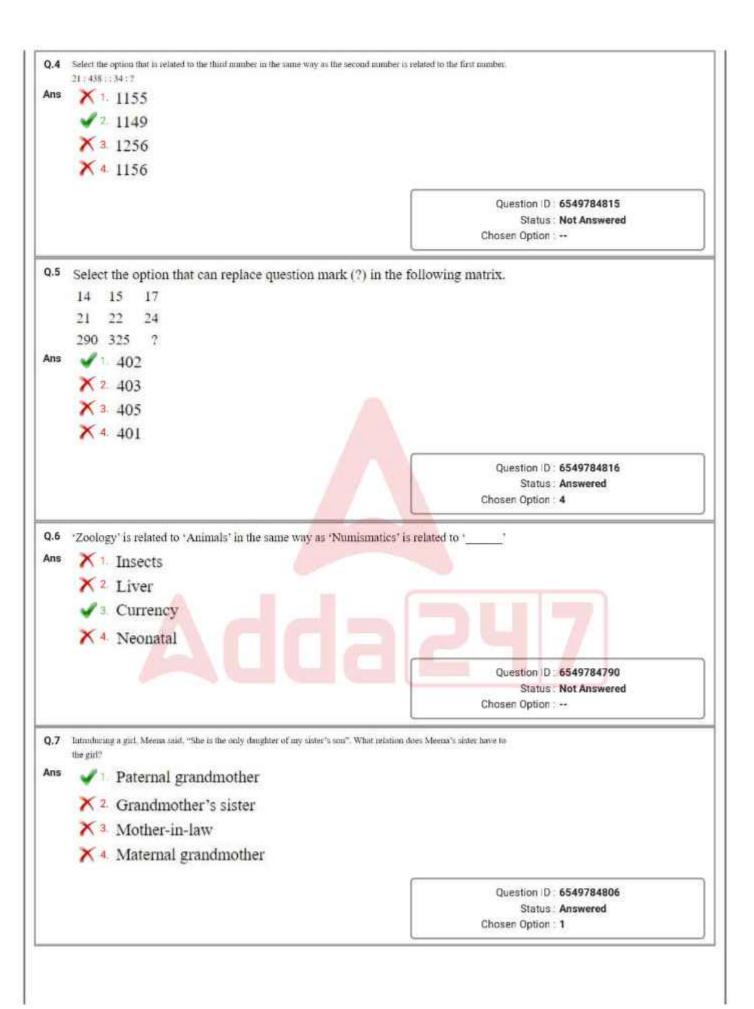
X 2 abcde

X 3. cabde

4 ebacd

Question D: 6549784787

Status: Answered



Q.8 Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the _ n n _ m _ m n _ n u _

Ans

- X 1. u, m, n, m, u, n
 - 2 m, n, u, n, u, m
 - X 3. n, m, u, n, m, u
 - X 4 m, n, n, u, u, m

Question D: 6549784782 Status: Not Answered

Chosen Option: --

Q.9 Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the

_t_sd_ta_dp_as_

Ans

- X 1. s, p, a, s, t, d
- X 2 p, a, s, p, t, d
- X a. d, a, d, s, t, p
- √ 4 p, a, p, s, t, d

Question ID: 6549784781

Status: Not Answered

Chosen Option: --

Q.10 Select the option that is related to the third number in the same way as the second number is related to the first number.

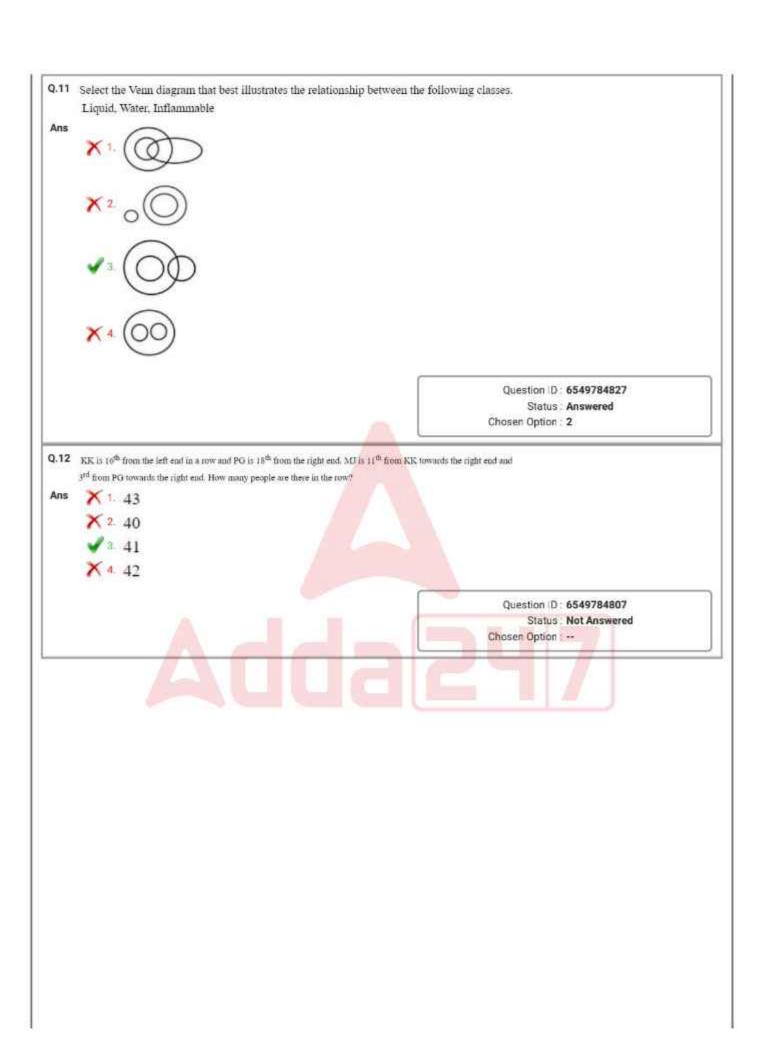
19:133::23:7

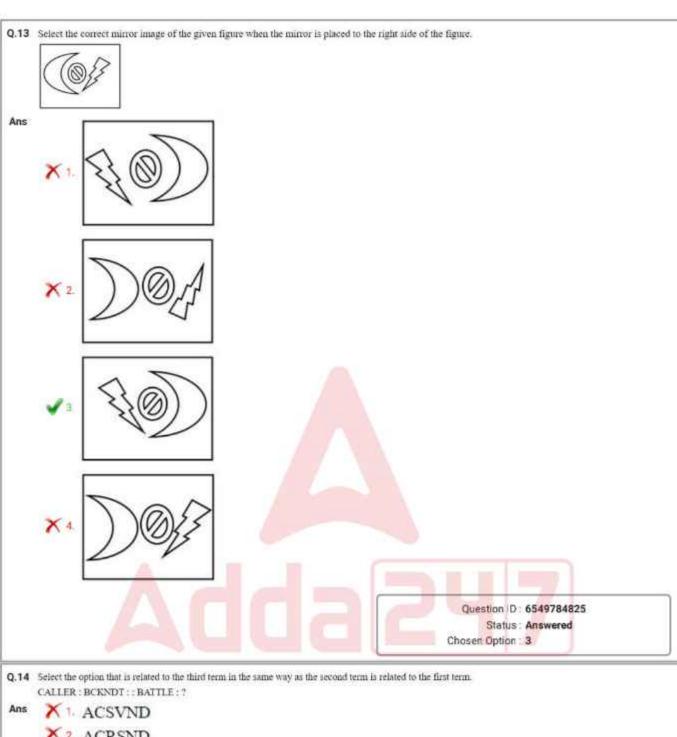
Ans

- X 1. 159
- X 2. 138
- X 3. 142
- 4 161

Question D: 6549784811

Status: Answered



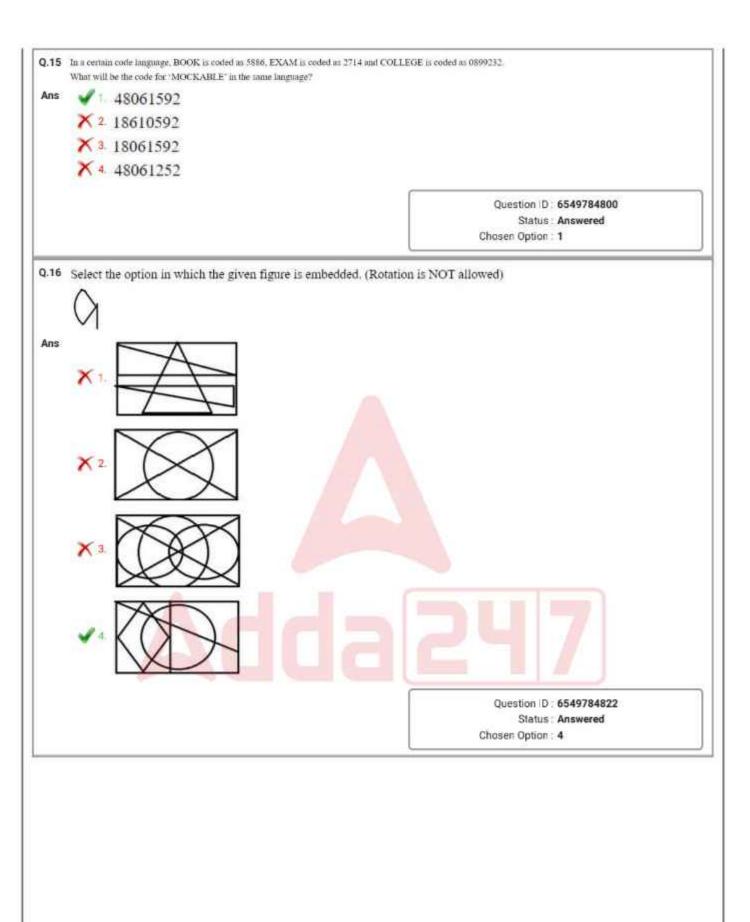


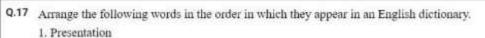
X 2 ACRSND

√ 3 ACSVKG

X 4 ADRVKG

Question | D : 6549784795 Status: Answered





- 2. Prevail
- 3. Precautious
- 4. Precarious
- 5. Pretention

Ans

- X 1. 3, 1, 2, 5, 4
- √ 2. 4, 3, 1, 5, 2
- X 3. 3, 1, 4, 2, 5
- X 4. 4, 1, 3, 5, 2

Question D: 6549784786 Status Answered

Chosen Option: 2

Q.18 Select the option that is related to the third term in the same way as the second term is related to the first term. SHELTER: TJHPYKY:: OUTSIDE: 2

Ans

- X 1. PVWWNJL
- √ 2. PWWWNJL
- X 3. NVUTJEF
- X 4 NWWXNJL

Question D: 6549784796 Status: Answered Chosen Option: 2

- Q.19 Arrange the following organisms in a logical and meaningful order.
 - 1. Dinosaurs
 - 2. Mammals
 - 3. Early Reptiles
 - 4. Bacteria
 - 5. Fish

- Ans X 1. 5, 4, 2, 3, 1
 - X 2 4, 5, 1, 3, 2
 - X 3. 4, 3, 5, 1, 2
 - V 4. 4, 5, 3, 1, 2

Question D: 6549784785

Status: Answered

Q.20 Rajesh is standing to the east of Ram, who is standing to the north of Ramesh. If Rohan is standing to the south of Ramesh, then in which direction is Rohan standing with respect to Rajesh?

Ans

- South-West
- X 2 South-East
- X 3. North-West
- X 4 North-East

Question D : 6549784803

Status: Answered

Chosen Option: 4

Q.21 Select the option in which the two words are related in the same way as are the two words in the given word-pair.
Truth: Fiction

Ans

- X 1. Light : Shine
- X 2 Charm : Glamour
- X 3 Gap : Cavity
- ✓ 4 Speedy : Leisurely

Question D: 6549784791

Status: Answered

Chosen Option: 4

Q.22 Select the option in which the two numbers share the same relationship as that shared by the given number-pair. 529: 23

Ans

- X 1. 635 : 25
- X 2 111:11
- X 3. 381:19
- √ 4. 729 : 27

Question D : 6549784812 Status : Answered

Chosen Option 4

Q.23 Select the correct combination of mathematical signs that can sequentially replace the four signs to balance the given equation.

20 + 12 × 4 + 8 - 6 = 29

Ans

- X 1. +, ×, -, +
- X 2. -, +, ×, +
- ✓ 3. +, -, +, ×
- X 4. -, +, ×, +

Question |D: 6549784818

Status: Not Answered

Q.24 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

- 1. All violins are instruments
- 2. All instruments are guinny.

Conclusions:

- I. All goiters are instruments.
- II. All violins are guitars.

Ans

- Neither conclusion I nor II follows.
- X 2. Only conclusion I follows
- Only conclusion II follows
- X 4 Both conclusions I and II follow

Question D: 6549784802 Status: Answered

Chosen Option: 3

Q.25 Rekha is the mother of Aryan. Anand is the father of Arpan. If Aryan, Arpan and Rahat are brothers, then which of the following statements is INCORRECT?

Ans

- Rahul and Rekha are not related.
- X 2 Anand is the father of Aryan.
- X 3. Rekha is Anand's wife.
- X 4 Aryan has two siblings.

Question ID : 6549784805 Status : Not Answered

Chosen Option: --

Q.26 Select the correct combination of mathematical signs that can sequentially replace the * signs to balance the given equation.

Ans

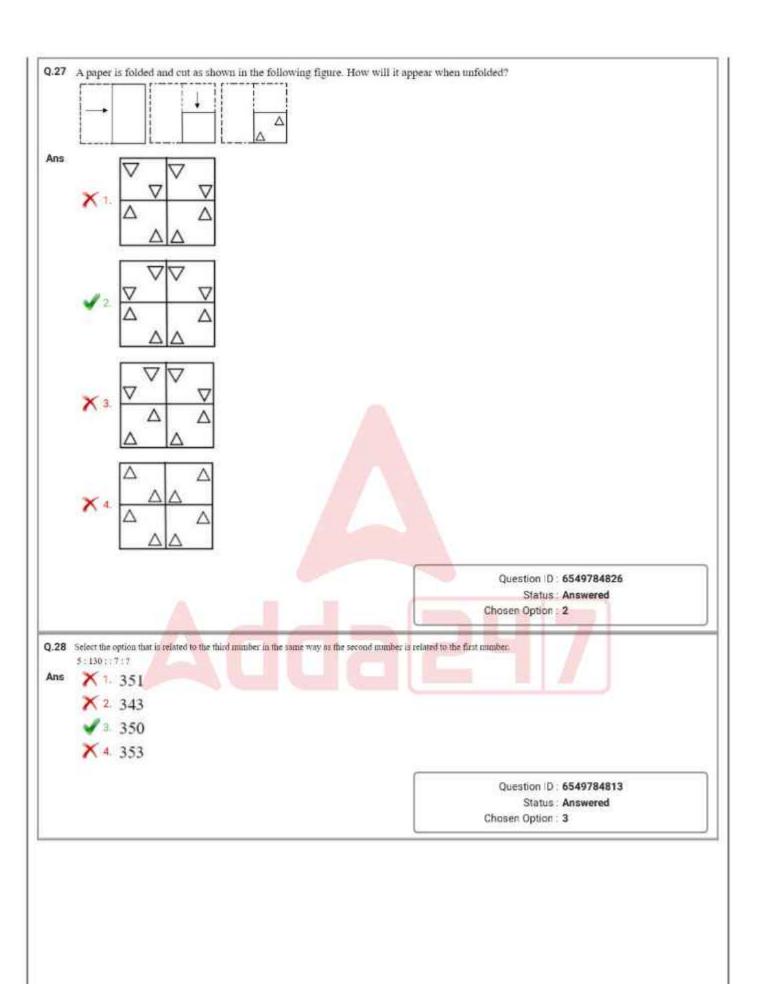
X 1. +, ×, -, +



X 3. -, ×, +, +

X 4. +, +, -, ×

Question D: 6549784817 Status: Answered



Q.29 A clock is so rotated that the digit 6 is replaced by 12 and the digit 3 is replaced by 9. In which direction respectively will the bour and minute hand be at exactly 22: 15 hours?

✓ South-East and West

X 2. North-East and East

X 3. North-East and West

X 4. South-East and East

Question | D: 6549784804

Status: Not Answered

Chosen Option: --

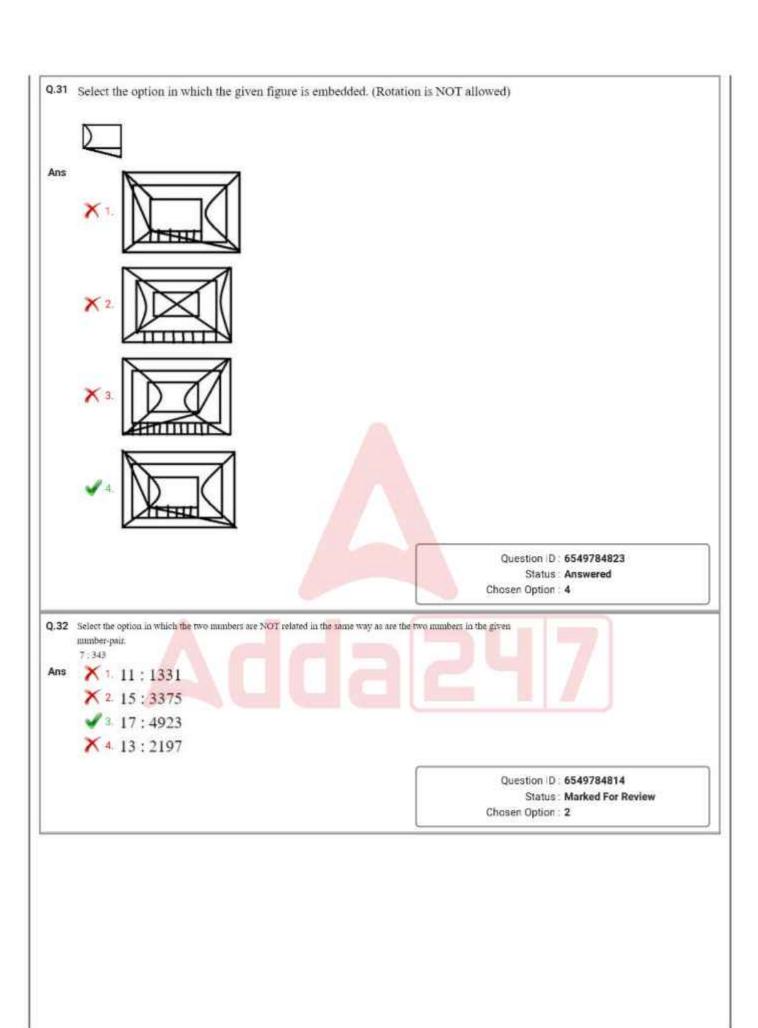
Q.30 For how many positive integer values of X can the following statement be true?

 $x^2 \le 2x$

Ans X 1. 4

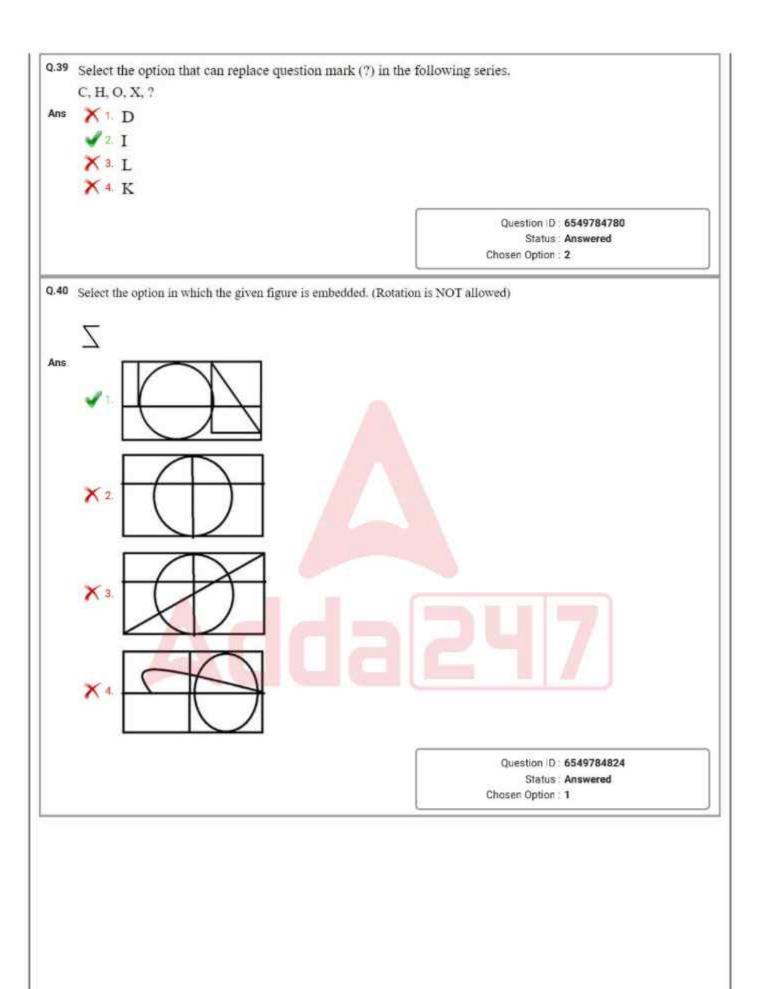
Question D: 6549784819 Status: Not Answered

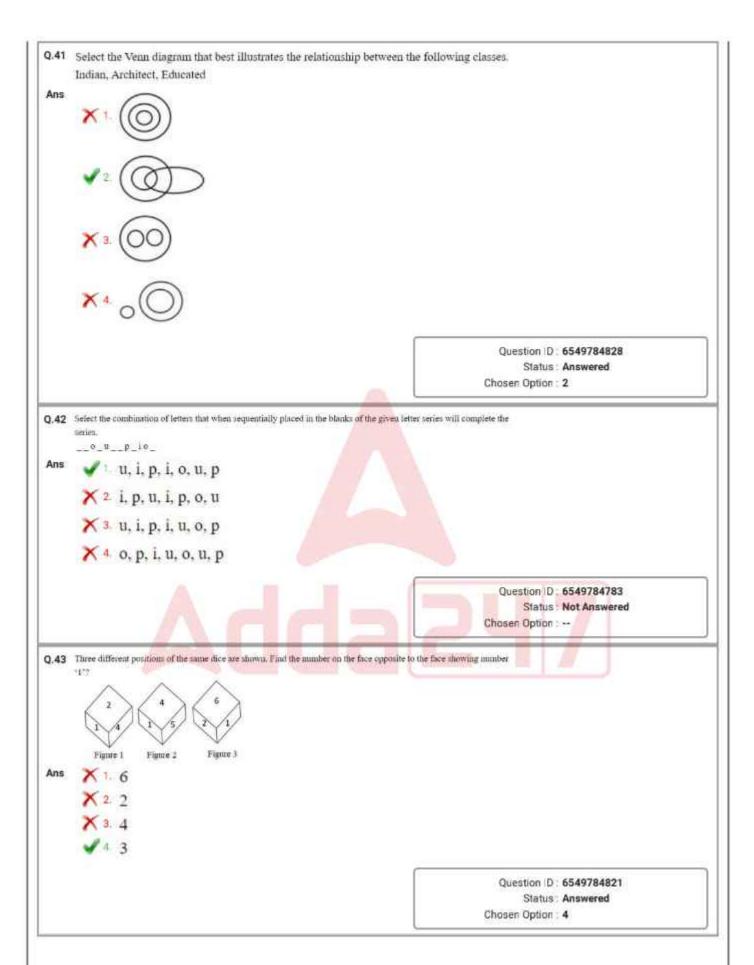


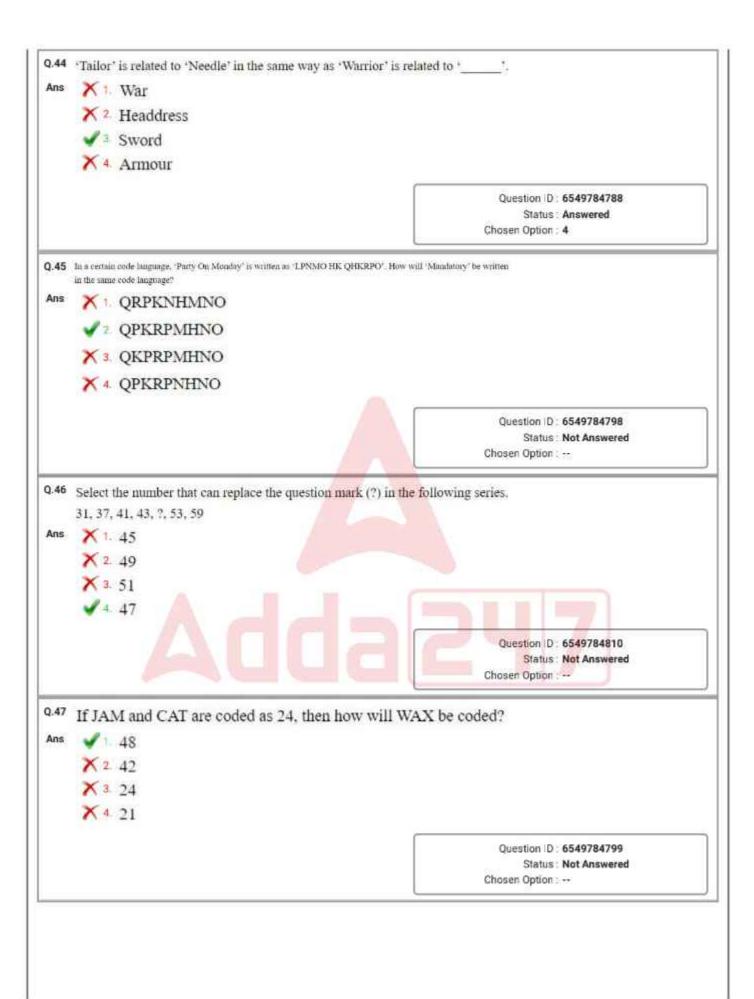


Q.33 In a row of some people, X is 11th from the left and Z is 15th from the right. When X and Z interchange their positions, X will be 5^{th} from the left. What will be 2^{-s} position from the right after the rearrangement? Ans X 1. 11th 12 gth X 3. 17th X 4. 7th Question D: 6549784808 Status: Not Answered Chosen Option : --Q.34 Select the option in which the two words are related in the same way as are the two words in the given word-pair. Despair : Desperation Ans X 1. Shallow : Deep √ 2 Hideous : Ugly X 3. Virtuous : Sinful X 4 Joy : Misery Question D: 6549784793 Status: Answered Chosen Option: 3 Q.35 In a certain code language "SUNRISE" is written as "UZPWKXO" How will "DARKER" be written in the name code Ans ✓ FFTPGW X 2 EFTPGV X 3 FETPGV X 4 FFSPGW Question D: 6549784797 Status: Answered Chosen Option: 1

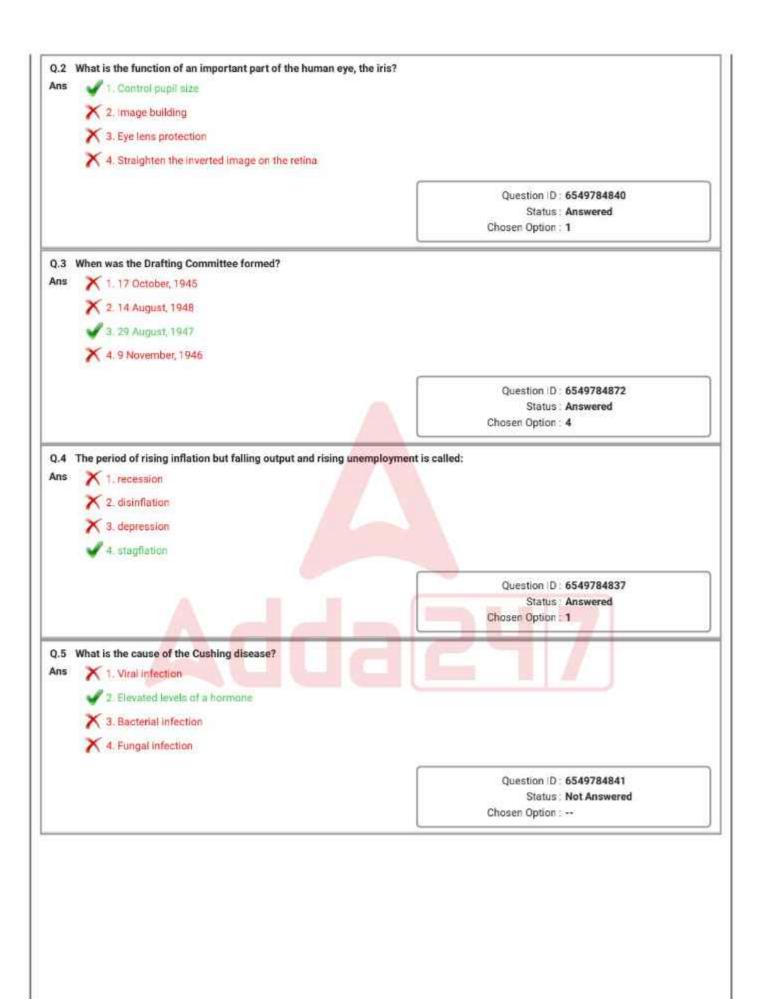
Q.36	Arrange the following objects in a logical and mea	ningful order.
	1. Belt	
	2. Sandals	
	3. Pocket square	
	4. Hat	
	5. Bow-tie	
Ans	× 1. 4, 5, 2, 1, 3	
	× 2 4, 3, 1, 2, 5	
	√ 3. 4, 5, 3, 1, 2	
	X 4. 2, 5, 3, 1, 4	
		Question D: 6549784784 Status: Answered
		Chosen Option : 3
Ans	2. Some buses are cars. 3. Some buses are cars. L. All sopoters are cars. II. Sease buses are trains. 1. Only conclusion II follows 2. Neither conclusion I nor II follows 3. Only conclusion I follows 3. Only conclusions I and II follow	Question D : 6549784801 Status : Answered Chosen Option : 4
Q.38	Select the option that can replace the question mark (?) in the	e following series.
	A, D, J, M, S, ?	
Ans	X 1. X	
	× 2. R	
	X 3. Y	
	√ 4. V	
		Question D : 6549784779 Status : Answered







Q.48 Select the number that can replace the question mark (?) in the following series. 14, 8, 20, 7, 26, 6, 32, 7 Ans X 1. 32 X 2. 8 X 3. 36 14.5 Question D: 6549784809 Status: Not Answered Chosen Option: --Q.49 'Fan' is related to 'Electricity' in the same way as 'Car' is related to '_____'. Ans ✓ | Fuel X 2 Steering X 3 Engine X 4. Tire Question ID: 6549784789 Status: Answered Chosen Option: 1 Q.50 Which of the following statements is correct for Quantity A and B? Quantity A Quantity B $(2X - 17) \div 2$ X - 17Ans V Quantity A is greater X 2 Quantity A will be four times higher than Quantity B X 3 Quantity B is greater X 4. Both the quantities will be the same Question D: 6549784820 Status: Not Answered Chosen Option: --Section: General Awareness Q.1 Which of the following is also called as devil-fish? X 1. Pila 2. Chiton X 3, Unio 4. Octopus Question D: 6549784843 Status: Not Answered Chasen Option: --

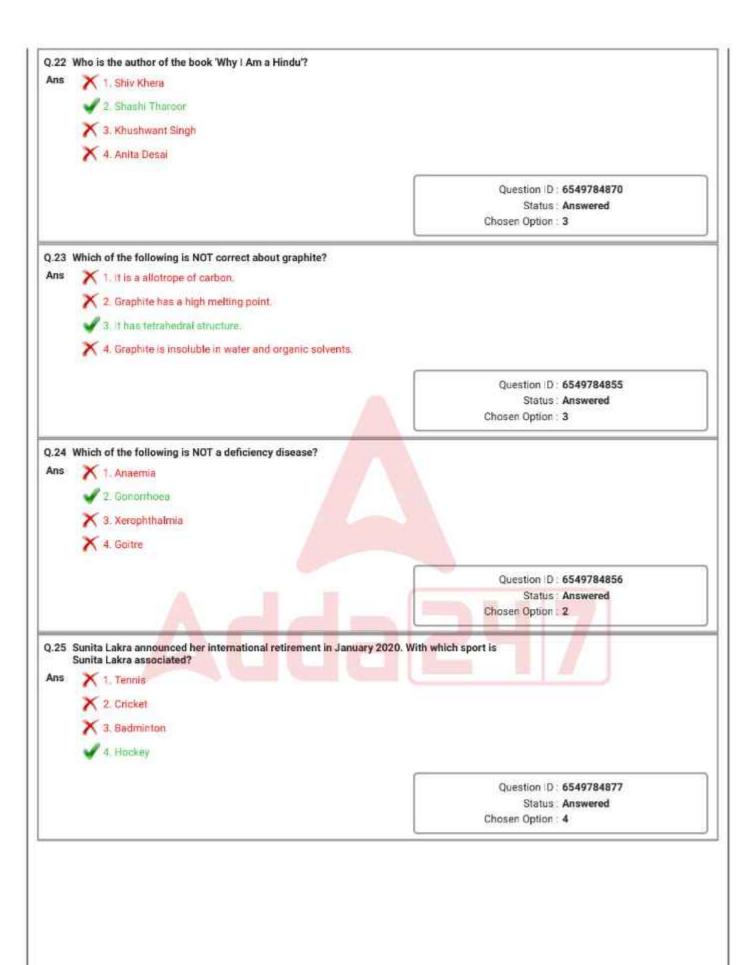


		Question ID: 6549784842
		Status : Not Answered
		Chosen Option :
.7	Which of the following is a crop of the Zaid season?	
Ins	X 1. Mustard	
	2. Pumpkin	
	X 3. Soybean	
	X 4. Ground nut	
		Question ID: 6549784859
		Status: Answered
		Chosen Option : 2
2.8	Which of the following is NOT correct about Oxalic Acid?	Chosen Option: 2
		cnosen oppon: 2
	X 1. It is found in small amounts in human urine.	chosen oppon: 2
	1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid.	
	1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid. 3. When it combines with potassium it forms an explosi	
	1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid.	
	1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid. 3. When it combines with potassium it forms an explosi	
	1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid. 3. When it combines with potassium it forms an explosi	Question ID: 6549784850 Status: Not Answered
Q.8 Ans	1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid. 3. When it combines with potassium it forms an explosi	Question (D : 6549784850
Ins	1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid. 3. When it combines with potassium it forms an explosi	Question ID: 6549784850 Status: Not Answered
Q.9	1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid. 3. When it combines with potassium it forms an explosion 4. It removes ink spots from cloth.	Question ID: 6549784850 Status: Not Answered
Q.9	1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid. 3. When it combines with potassium it forms an explosion 4. It removes ink spots from cloth. When was the National Green Tribunal formed?	Question ID: 6549784850 Status: Not Answered
Q.9	1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid. 3. When it combines with potassium it forms an explosit 4. It removes ink spots from cloth. When was the National Green Tribunal formed? 1. 18 October, 2010 2. 20 August, 2014	Question ID: 6549784850 Status: Not Answered
Q.9	 1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid. 3. When it combines with potassium it forms an explosion of the combines with potassium it forms and explosion of the combines with potassium it forms and explosion of the combines with the combines	Question ID: 6549784850 Status: Not Answered
Ans	1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid. 3. When it combines with potassium it forms an explosit 4. It removes ink spots from cloth. When was the National Green Tribunal formed? 1. 18 October, 2010 2. 20 August, 2014	Question ID: 6549784850 Status: Not Answered
).9	 1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid. 3. When it combines with potassium it forms an explosion of the combines with potassium it forms and explosion of the combines with potassium it forms and explosion of the combines with the combines	Question ID : 6549784850 Status : Not Answered Chosen Option
).9	 1. It is found in small amounts in human urine. 2. It is a Dicarboxylic Acid. 3. When it combines with potassium it forms an explosion of the combines with potassium it forms and explosion of the combines with potassium it forms and explosion of the combines with the combines	Question ID : 6549784850 Status: Not Answered Chosen Option:

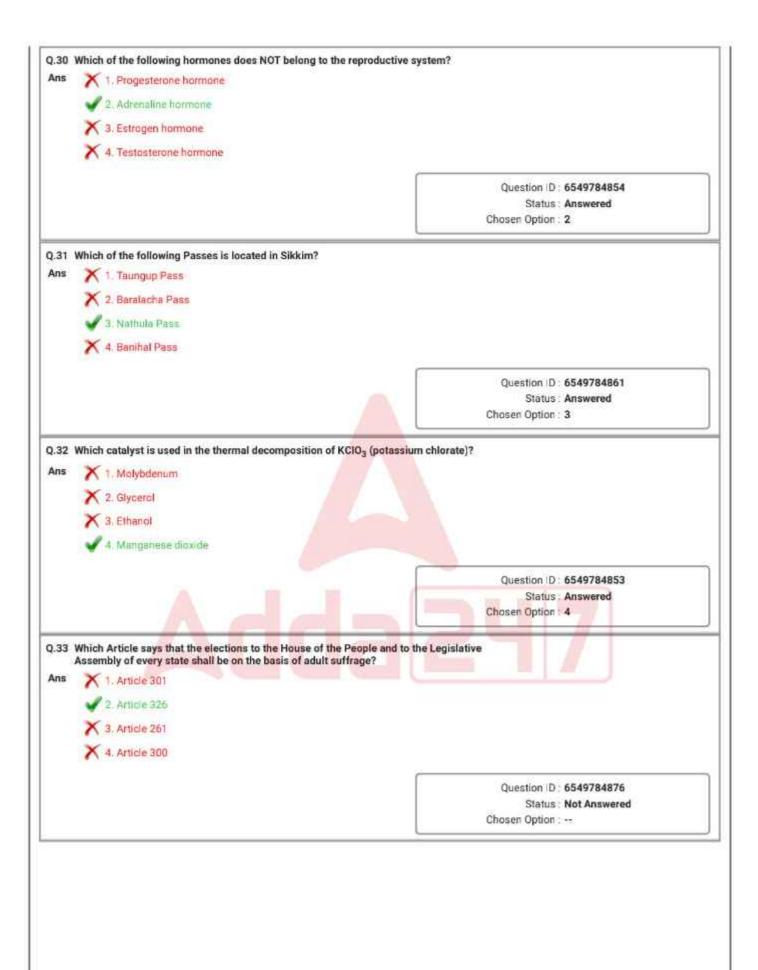
4.10	Kerala got the first position on the 'SDG India Index 2019'. SDG Ind by:	ia Index was developed
Ans	X 1. Ministry of Finance	
	X 2. Ministry of Human Resource Development	
	✓ 3. NITI Aayog	
	X 4. Ministry of Defence	
	A. Hillian J. a. Feet and	
		Question ID: 6549784835
		Status: Answered Chosen Option: 3
		Unitable apriority
Q.11	Which of the following is INCORRECTLY matched with regards to v corresponding incidents?	iceroy and the
Ans	1. Lord Chelmsford - Rowlatt Act	
	X 2. Lord Reading - Establishment of Swaraj Party	
	X 3. Lord Irwin - First Round Table Conference	
	4. Lord Wavell - The Cripps Mission	
		Question ID : 6549784869 Status : Answered
		Chosen Option: 2
	X 2. 'Health and Pollution' ✓ 3. 'Today for Tomorrow'	
	X 4. 'Today for Plantation'	
		Question D: 6549784832
		Question (D: 6549784832 Status: Answered Chosen Option: 3
Q.13		Status: Answered
	X 4. 'Today for Plantation'	Status: Answered
	X 4. 'Today for Plantation' The term 'Sarkar' in Mughal administration stands for:	Status: Answered
	A. 'Today for Plantation' The term 'Sarkar' in Mughal administration stands for: 1. province	Status: Answered
	X 4. 'Today for Plantation' The term 'Sarkar' in Mughal administration stands for: X 1. province X 2. village X 3. government	Status: Answered
	X 4. 'Today for Plantation' The term 'Sarkar' in Mughal administration stands for: X 1. province X 2. village	Status: Answered
Q.13 Ans	X 4. 'Today for Plantation' The term 'Sarkar' in Mughal administration stands for: X 1. province X 2. village X 3. government	Status : Answered Chosen Option : 3
	X 4. 'Today for Plantation' The term 'Sarkar' in Mughal administration stands for: X 1. province X 2. village X 3. government	Status : Answered Chosen Option : 3

110.11	3. shoulder bones 4. collar bones	Question D : 6549784849
^	4, collar bones	Ougetion ID: 5540794949
		Question ID: 6540794949
		Status : Answered Chosen Option : 2
		Chosen Option . 2
5 On wh	ch route has the 'Second Tejas Train' been launched by	Indian Railways?
ıs 🧳	Ahmedabad - Mumbai route	
X	2. Lucknow – Delhi route	
X	3. Bhopal - Nagpur	
X	4. Jaipur - Pune route	
		Question ID: 6549784831
		Status: Answered
		Chosen Option : 1
	3. centre-state relations 4. election commission	
		Question D: 6549784874
		Status: Answered
		Chosen Option 4

18	Which state government has decided to celebrate the first d 2020 as 'No Vehicle Day'?	ay of every month of the year
ns	X 1. Chhattisgarh	
	X 2. Odisha	
	✓ 3. Rajusthen	
	X 4. Karnataka	
		Question D 6549784833
		Status Answered
		Chosen Option : 4
.19	Which of the following can be used to harden glass?	
Ans	X 1. Chloretone	
	2. Potassium Chloride	
	X 3. Nitrogen Dioxide	
	X 4. Calcium Chloride	
		Question D : 6549784845
		1220 47 F - 124 CO 150 CO 121
		Status: Answered
	Which organisation has approved a \$490 million loan as par private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019? 1. World Bank	Chosen Option : 3
	private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019?	Chosen Option : 3 t of a \$904 million public—
	private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019? 1. World Bank 2. Asian Development Bank 3. International Monetary Fund	t of a \$904 million public— es of state highways and major
	private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019? 1. World Bank 2. Asian Development Bank 3. International Monetary Fund	t of a \$904 million public— es of state highways and major Question D: 6549784836
	private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019? 1. World Bank 2. Asian Development Bank 3. International Monetary Fund	Chosen Option : 3 t of a \$904 million public— es of state highways and major Question D : 6549784836 Status : Answered
	private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019? 1. World Bank 2. Asian Development Bank 3. International Monetary Fund	t of a \$904 million public— es of state highways and major Question D: 6549784836
Ans	private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019? X 1. World Bank 2. Asian Development Bank X 3. International Monetary Fund X 4. World Trade Organisation	Chosen Option : 3 t of a \$904 million public— es of state highways and major Question D : 6549784836 Status : Answered Chosen Option : 2
Ans	private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019? X 1. World Bank 2. Asian Development Bank X 3. International Monetary Fund X 4. World Trade Organisation	Chosen Option : 3 Tof a \$904 million public— es of state highways and major Question D : 6549784836 Status : Answered Chosen Option : 2
Ans	private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019? X 1. World Bank 2. Asian Development Bank X 3. International Monetary Fund X 4. World Trade Organisation Which of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the fo	Chosen Option : 3 t of a \$904 million public— es of state highways and major Question D : 6549784836 Status : Answered Chosen Option : 2
Ans	private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019? X 1. World Bank 2. Asian Development Bank X 3. International Monetary Fund X 4. World Trade Organisation Which of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the fo	Chosen Option : 3 Tof a \$904 million public— es of state highways and major Question D : 6549784836 Status : Answered Chosen Option : 2
Ans	private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019? X 1. World Bank V 2. Asian Development Bank X 3. International Monetary Fund X 4. World Trade Organisation Which of the following is INCORRECTLY matched with respe X 1. Iron ore - Bailadila X 2. Silver - Zawar X 3. Coal - Jharia	Chosen Option : 3 Tof a \$904 million public— es of state highways and major Question D : 6549784836 Status : Answered Chosen Option : 2
Ans	private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019? X 1. World Bank 2. Asian Development Bank X 3. International Monetary Fund X 4. World Trade Organisation Which of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the following is INCORRECTLY matched with respendent properties of the fo	Chosen Option : 3 Tof a \$904 million public— es of state highways and major Question D : 6549784836 Status : Answered Chosen Option : 2
Ans	private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019? X 1. World Bank V 2. Asian Development Bank X 3. International Monetary Fund X 4. World Trade Organisation Which of the following is INCORRECTLY matched with respe X 1. Iron ore - Bailadila X 2. Silver - Zawar X 3. Coal - Jharia	Chosen Option : 3 t of a \$904 million public— es of state highways and major Question D : 6549784836 Status : Answered Chosen Option : 2
Ans	private partnership project to improve about 1,600 kilometre district roads in Madhya Pradesh in the year 2019? X 1. World Bank V 2. Asian Development Bank X 3. International Monetary Fund X 4. World Trade Organisation Which of the following is INCORRECTLY matched with respe X 1. Iron ore - Bailadila X 2. Silver - Zawar X 3. Coal - Jharia	Chosen Option : 3 Question D : 6549784836 Status : Answered Chosen Option : 2 act to mineral and its site?



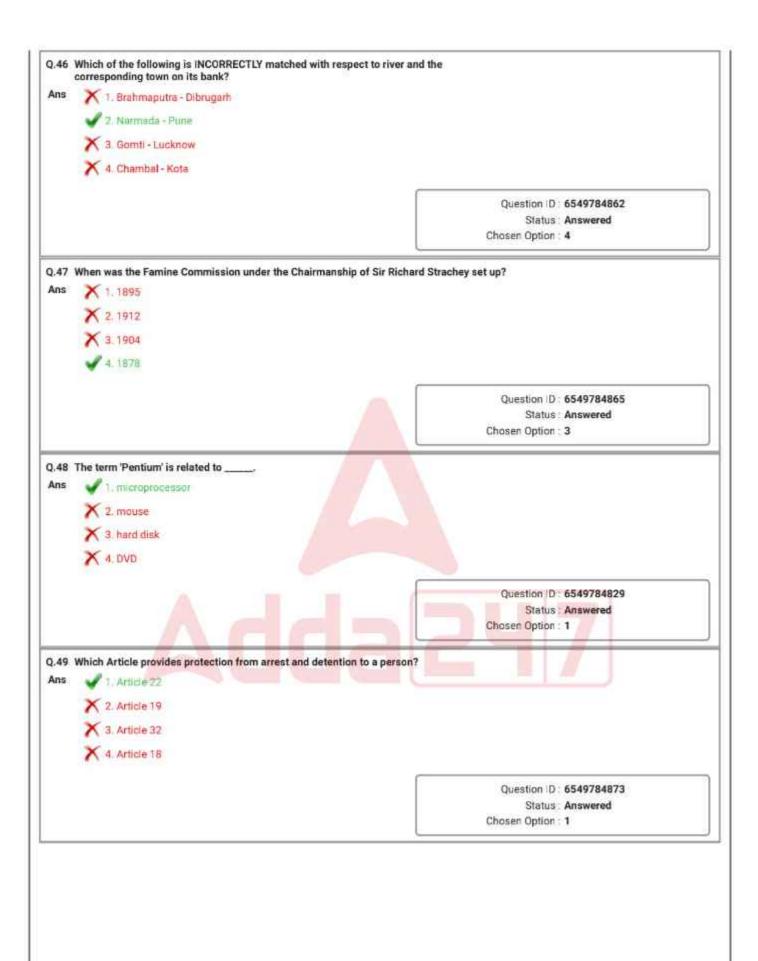
Q.26 Which of the following plants produce opium? Ans X 1. Nicotiana Tabacum 2, Cucumis Sativus X 3. Sorghum Vulgare 4. Papaver Somniferum Question D: 6549784852 Status: Answered Chosen Option: 2 Q.27 Which of the following is NOT correct about Laterite soil? This soil is poor in organic matter, nitrogen, phosphate. 2. This soil develops in areas with high temperature and high rainfall. 3. This soil is widespread in the northern plains and the river valleys. A. This is the result of intense leaching due to tropical rains. Question D: 6549784864 Status: Answered Chosen Option: 3 Q.28 भारतीय पुरावनस्पत्ति विज्ञान (Indian Paleobotany) के जनक कौन हैं? X 1. चंद्रशेखर वेंकट रमन X 2. प्रफुल्ल चंद्र रे 3. बीरबल साहनी 🗙 ४. मेघनाद साहा Question D: 6549784847 Status: Answered Chosen Option: 1 Q.29 Which of the following is NOT correct about a concave mirror? When the object is on focus, the image is formed at the infinite. 2. The reflective surface of this mirror is embessed. X 3. It is used in vehicle headlights and searchlights. 4. Concave mirrors can produce both real and virtual images. Ouestion ID: 6549784857 Status: Answered Chosen Option: 2

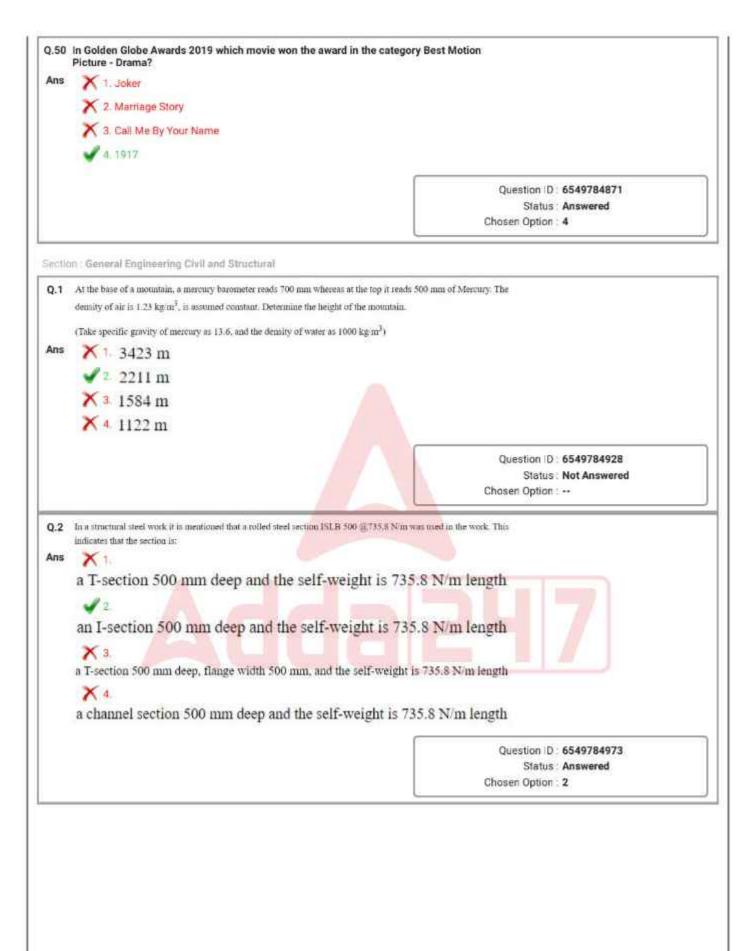


Q.34 T	कौन सी टीम सैफ़ (SAFF) महिला चैम्पियनशिप 2019 की विजेता थी?		
\ns	√ 1. भारत		
	🗶 2. संयुक्त राज्य अमेरिका		
	🗙 ३. पाकिस्तान		
	🗙 ४. जापान		
			6549784878 Answered
		Chosen Option :	
35 1	Which of the following is NOT correct with respect to drip irrigation?		
ns .	X 1. It saves water wastage.		
	X 2. Fertilizers can be used with high efficiency.		
	3. It requires very less installation.		
	X 4. It prevents soil erosion.		
			6549784860
			Answered
1	India got the 63rd position in Ease of Doing Business Rep <mark>ort 2020. Whi</mark> publishes the report? 1. International Monetary Fund 2. World Bank	Chosen Option	
1	publishes the report? 1. International Monetary Fund	Chosen Option	
1	1. International Monetary Fund 2. World Bank 3. World Trade Organisation	Chosen Option	3
1	1. International Monetary Fund 2. World Bank 3. World Trade Organisation	Chosen Option Chosen Option Question D Status	3 6549784839 Answered
1	1. International Monetary Fund 2. World Bank 3. World Trade Organisation	Chosen Option ch organisation	3 6549784839 Answered
) ins	which of the following joint bones can bend in only one direction?	Chosen Option Chosen Option Question D Status	3 6549784839 Answered
ns 37 1	which of the following joint bones can bend in only one direction? 1. International Monetary Fund 2. World Bank 3. World Trade Organisation 4. World Customs Organisation	Chosen Option Chosen Option Question D Status	3 6549784839 Answered
1 ns 1 ns 37 1	which of the following joint bones can bend in only one direction? 1. International Monetary Fund 2. World Bank 3. World Trade Organisation 4. World Customs Organisation Which of the following joint bones can bend in only one direction? 1. Pivot joint 2. Saddle joint	Chosen Option Chosen Option Question D Status	3 6549784839 Answered
ns 37 1	which of the following joint bones can bend in only one direction? 1. Pivot joint 2. Saddle joint 3. Hinge joint	Chosen Option Chosen Option Question D Status	3 6549784839 Answered
ns 37 1	which of the following joint bones can bend in only one direction? 1. International Monetary Fund 2. World Bank 3. World Trade Organisation 4. World Customs Organisation Which of the following joint bones can bend in only one direction? 1. Pivot joint 2. Saddle joint	Chosen Option Chosen Option Question D Status	3 6549784839 Answered
37 V	which of the following joint bones can bend in only one direction? 1. Pivot joint 2. Saddle joint 3. Hinge joint	Chosen Option Question D Status Chosen Option	3 6549784839 Answered
ins .	which of the following joint bones can bend in only one direction? 1. Pivot joint 2. Saddle joint 3. Hinge joint	Question D	6549784839 Answered 3 6549784851 Answered

	What colour of light is formed when red, blue and green col proportion?	ious of right freet in equal
ns	X 1. Black	
	X 2. Yellow	
	3. White	
	X 4. Viglet	
		Question D : 6549784844
		Status: Answered Chosen Option: 3
		Chosen Option : 3
.39	निम्नलिखित में से कौन सी नदी ब्रह्मपुत्र नदी प्रणाली का भाग नहीं है?	
Ans	🗙 १. सुबनसिरी	
	X 2. मानस	
	✓ 3. इंद्रावती	
	🗙 4. धनसिरी	
		Question D : 6549784858
		Question D : 6549784858 Status : Answered
	Choose the INCORRECT statement with respect to the Kusi 1. Third Buddhist council was held during his reign. 2. The main capital of his empire was located at Purv	Status: Answered Chosen Option: 3 han ruler Kanishka:
	1. Third Buddhist council was held during his reign. 2. The main capital of his empire was located at Purv 3. Charak was contemporary to Kanishka.	Status : Answered Chosen Option : 3 han ruler Kanishka:
	 1. Third Buddhist council was held during his reign. 2. The main capital of his empire was located at Purv 	Status : Answered Chosen Option : 3 han ruler Kanishka:
	1. Third Buddhist council was held during his reign. 2. The main capital of his empire was located at Purv 3. Charak was contemporary to Kanishka.	Status : Answered Chosen Option : 3 han ruler Kanishka: wapura in Gandhara. Question D : 6549784868
	1. Third Buddhist council was held during his reign. 2. The main capital of his empire was located at Purv 3. Charak was contemporary to Kanishka.	Status : Answered Chosen Option : 3 han ruler Kanishka: Wapura in Gandhara. Question D : 6549784868 Status : Not Answered
	1. Third Buddhist council was held during his reign. 2. The main capital of his empire was located at Purv 3. Charak was contemporary to Kanishka.	Status : Answered Chosen Option : 3 han ruler Kanishka: wapura in Gandhara. Question D : 6549784868
Ans	1. Third Buddhist council was held during his reign. 2. The main capital of his empire was located at Purv 3. Charak was contemporary to Kanishka.	Status : Answered Chosen Option : 3 han ruler Kanishka: Wapura in Gandhara. Question D 6549784868 Status : Not Answered Chosen Option :
Ans 2.41	1. Third Buddhist council was held during his reign. 2. The main capital of his empire was located at Purv 3. Charak was contemporary to Kanishka. 4. Huvishka was the successor of Kanishka.	Status : Answered Chosen Option : 3 han ruler Kanishka: Wapura in Gandhara. Question D 6549784868 Status : Not Answered Chosen Option :
Ans 2.41	1. Third Suddhist council was held during his reign. 2. The main capital of his empire was located at Purv 3. Charak was contemporary to Kanishka. 4. Huvishka was the successor of Kanishka. Which of the following is used to open a new tab on a brow 1. Cirl + T	Status : Answered Chosen Option : 3 han ruler Kanishka: Wapura in Gandhara. Question D 6549784868 Status : Not Answered Chosen Option :
Ans	1. Third Buddhist council was held during his reign. 2. The main capital of his empire was located at Purv 3. Charak was contemporary to Kanishka. 4. Huvishka was the successor of Kanishka. Which of the following is used to open a new tab on a brow 1. Ctrl + T 2. Ctrl + A	Status : Answered Chosen Option : 3 han ruler Kanishka: Wapura in Gandhara. Question D 6549784868 Status : Not Answered Chosen Option :
Ans).41	1. Third Buddhist council was held during his reign. 2. The main capital of his empire was located at Purv 3. Charak was contemporary to Kanishka. 4. Huvishka was the successor of Kanishka. Which of the following is used to open a new tab on a brow 1. Ctrl + T 2. Ctrl + A 3. Ctrl + W	Status : Answered Chosen Option : 3 han ruler Kanishka: Wapura in Gandhara. Question D 6549784868 Status : Not Answered Chosen Option :
Ans 2.41	1. Third Buddhist council was held during his reign. 2. The main capital of his empire was located at Purv 3. Charak was contemporary to Kanishka. 4. Huvishka was the successor of Kanishka. Which of the following is used to open a new tab on a brow 1. Ctrl + T 2. Ctrl + A	Status : Answered Chosen Option : 3 han ruler Kanishka: Wapura in Gandhara. Question D 6549784868 Status : Not Answered Chosen Option :
Ans 2.41	1. Third Buddhist council was held during his reign. 2. The main capital of his empire was located at Purv 3. Charak was contemporary to Kanishka. 4. Huvishka was the successor of Kanishka. Which of the following is used to open a new tab on a brow 1. Ctrl + T 2. Ctrl + A 3. Ctrl + W	Status : Answered Chosen Option : 3 han ruler Kanishka: Wapura in Gandhara. Question D 6549784868 Status : Not Answered Chosen Option :
Ans 2.41	1. Third Buddhist council was held during his reign. 2. The main capital of his empire was located at Purv 3. Charak was contemporary to Kanishka. 4. Huvishka was the successor of Kanishka. Which of the following is used to open a new tab on a brow 1. Ctrl + T 2. Ctrl + A 3. Ctrl + W	Status: Answered Chosen Option: 3 han ruler Kanishka: Question D : 6549784868 Status: Not Answered Chosen Option:

2.42	Which of the following instruments is used to determine the area of map?	irregular plots in a	
Ans	X 1. Mapometer		
	X 2. Cartometer		
	X 3. Segmometer		
	4. Planimeter		
		Question D 6549784846	
		Status Answered	
		Chosen Option: 4	
_		STANDARD COMMON TO THE COMMON	
43	NASA released a picture of crashed Vikram lander on 3, December 2 NASA use to find Vikram?	2019. Which satellite did	
ns	X 1. Skylab		
	2. Lunar Reconnaissance Orbiter		
	X 3. Explorer T		
	X 4. Juno		
		Question ID: 6549784834 Status: Answered	
		Chosen Option: 2	
	X 2. women X 3. children 4. farmers		
		Question D: 6549784838	
		Status: Answered	
		Chosen Option : 4	
45	Choose the correct option with respect to the Poons Pact.		
ns		mbedkar.	
	X 2. Signed in August 1931 between Mahatma Gandhi and Lord		
	X 3. Signed in September 1932 between Mahatma Gandhi and L		
	The state of the s	R Ambedkar.	
	4. Signed in September 1932 between Mahatma Gandhi and B		
	 4. Signed in September 1932 between Mahatma Gandhi and B 	Ounction ID - 6540794947	
	4. Signed in September 1932 between Mahatma Gandhi and B	Question D: 6549784867 Status: Answered	
	4. Signed in September 1932 between Mahatma Gandhi and B	Question D : 6549784867 Status : Answered Chosen Option : 4	





Q.3 The items given in options pertain to different supects or functionalities of track design in milway engineering. Select the INCORRECT combination.

Ans



Ballast: Granular mattress laid over the earth formation to provide suitable bed for the sleepers on which they can rest



Ruling gradient: Maximum gradient to which a track may be laid in a particular section



Marshalling yard: To separate goods wagous received from various centers in the order of stations to which they are to be sent



Pusher gradient: Rising gradient which is followed by a falling gradient and along which the train climbs easily due to momentum gained by them over the falling gradient

> Question D: 6549784943 Status: Answered Chosen Option: 2

Q.4 The soil moisture content of a clay soil sample was determined for the plastic limit, liquid limit and shrinkage limits. What will be the correct sequence of the occurrence of the following limits, Plastic Limit (P), Liquid limit (L) and shrinkage limit (S), associated with the decrease in moisture content (in the order high moisture content to low moisture content)?

(Use symbols P. L. and S for selection of answer)

Ans

X 1. L. S. P.

X 2 P. L. S

X 3. S. L. P

1 L. P. S

Question D: 6549784917 Status: Answered Chosen Option: 4

Q.5 Which of the following is NOT the method of estimating building works?

Ans

X 1. Crossing method

X 2 Out-to-out and in-to-in

X 3. Centre line method

Method of projections

Question D: 6549784894 Status: Answered

Q.6 In an earth work construction, a mass haul diagram is a diagram showing:

Ans

- X 1. the amount of cutting and filling along the length
- X 2 the longitudinal section of the site
- X 3. the cross-section of the site
- the cumulative volume of earth work and the haulage

Question D: 6549784892 Status: Not Answered

Chosen Option: --

Q.7 For an airpost, match the items in List I (Runway component) with those in List 2 (design criteria). Use the codes in the list for matching.

List 1

- A. Basic runway length
- B. Airport drainage
- C. Runway geometric design
- D. Rumway Capacity

List 2

- 1. Location of exit taxiways
- 2. Engine failure class
- 3. Width and length of safety area of suport
- 4. Grading of airport site

Question D: 6549784944

Status: Answered

Chosen Option: 4

- Three statements (\$1, \$2 and \$3) related to civil engineering works are given. Identify the correct statements.
 - S1: Mounds of earth left undistrated in pits dog out for borrowing earth are known as Deadmen.
 - S2: In earth work, the final shape of the ground after exaction or filling up is known as Burjis.
 - S3: Dressed square stone blocks of given dimensions having faces perpendicular to each other and laid in courses in known as Ashlar .

Ans

- X 1. Only S2
- X 2. S1, S2, and S3
- X 3 S2 and S3
- 4 S1 and S3.

Question |D: 6549784893

Status: Answered

Q.9 The capitalised value of a property fetching a net annual rent of ₹64,000 % at the highest prevailing rate of interest of 8% is:

Ans

- X 1. ₹59,25,926/-
- X 2 ₹8,64,000/-
- X 3. ₹5,12,000/-
- √ 4 ₹8,00,000/-

Question |D : 6549784899 Status : Not Answered

Chosen Option: --

Q.10 The yield strength of a mild steel specimen was found to be 250 N/mm². Taking a factor of safety of 2, the allowable working streng is:

Ans

- X 1. 62.5 N/mm²
 - X 2 250 N/mm²
 - X 3. 500 N/mm²
 - ✓ 4 125 N/mm²

Question ID: 6549784974 Status: Answered Chosen Option: 4

Q.11 A set of four rapid gravity filter bed system is to be designed for a fown of 100000 population with daily supply of 250 litre person day. The rate of filtration through the filter bed is 5000 litre bone in. If the length of filter bed is twice the width, determine the length (L) and width (W) of filter bed.

Ans

- \times 1. L = 12.4 m; W = 6.2 m
- $\sqrt{2}$ L = 10.2 m; W = 5.1 m
- \times 3. L = 11.8 m; W = 5.9 m
- \times 4 L = 8.6 m; W = 4.3 m

247

Question D 6549784954 Status: Not Answered Chosen Option: --

Q.12 Determine the specific weight of a liquid having specific gravity of 0.85. Take specific weight of water as 10000 N/m³.
Express the answer in kN/m³ units.

Ans

- X 1. 85
- X 2 0.085
- X 3 0.85
- 4 8.5

Question D: 6549784925 Status: Answered

- Q.13 The following statements (S1 to S4) pertain to a compression member.
 - S1: The effective length depends on the boundary conditions of member at ends.
 - S2: The elastic critical stress in compression decreases with decrease in slenderness ratio.
 - \$3 : The ratio of the effective length to the radius of gyration of the member is termed as slenderness ratio of member.
 - 84: The elastic critical stress in compression is independent of the slenderness ratio.

Identify the INCORRECT statement(s).

Ans

- X 1. Only S1
- X 2 Only S1 and S3
- Only S2 and S4
- X 4 Only S1, S3 and S4

Question | D : 6549784977 Status : Answered Chosen Option : 4

Q.14 Which one out of four options below is NOT the purpose of vertical shafts in tunnel?

Ans

X 1 To speed up excavation from many working faces.

X 2

To provide natural ventilation during and after the construction of tunnel.



To pump out the water in case it is found during the construction of tunnel.



To make use of it as a quarry to obtain stones for masonry works.

Question |D : 6549784946 Status : Answered

Chosen Option: 4

Q.15 A homogeneous simply supported priamatic beam of width B, depth D and span L is subjected to a concentrated load of magnitude 200 kN. The load can be placed anywhere along the span of the beam. The maximum flexuoil stress developed in the beam in:

Ans

- $\times 1.\frac{600 L}{B D^2}$
- $\times 2 \frac{75L}{BD^2}$
- $\sqrt{3}$ $\frac{300 L}{B D^2}$
- $\times 4 \frac{75L}{2BD^2}$

Question D: 6549784960

Status: Answered

- Q.16 For a simply supported beam, if the area under the shear force diagram between 2 points is a constant C, then the difference between the moments at these points is:

 Ans
 1. C²
 2. C
 - Question D : 6549784957
 Status : Answered
 Chosen Option : 2
- Q.17 Identify the method that is NOT used for determination of in situ unit weight of a natural soil deposit?
- Ans Sand bath method

 Core cutter method
 - X 3. Water displacement method
 X 4. Sand replacement method
- Question | D : 6549784918 Status : Answered Chosen Option : 1
- Q.18 Among the different methods of tunnel construction, identify the one which is NOT suitable for rocks.
- Ans Shield method

 2 Drift method

 $X_3 = \frac{C^2}{2}$

X4.2C

- X 3. Full face method
- X 4 Heading and benching method

- Question | D : 6549784945 Status : Not Answered Chosen Option : ---
- Q.19 A water course has a culturable command area of 1200 hectages (1 hectage = 10⁴ m²). The intensity of irrigation for crop A is 40% and for crop B is 35%, both being Kharif crops. The crop A has a keep period of 20 days and crop B has a keep period of 15 days. Calculate the discharge of the water course if the keep depth for crop A is 10 cm and for crop B is 16 cm.
- Ans
- ✓ 1 0.8 m³/s
- × 2 0.15 m³/s
- X 3. 0.28 m³/s
- X 4 0.52 m³/s

Question D: 6549784938

Status Not Attempted and Marked For Review

Q.20 In the case of reinforced concrete column footings, the minimum value of nominal cover thickness to be provided for meeting the durability requirements, under very severe exposure conditions is:

Ans

- ✓ 1 50 mm
- X 2 60 mm
- X 3. 40 mm
- X 4. 75 mm

Question |D : 6549784968 Status : Answered

Chosen Option: 4

Q.21 The criteria for minimum and maximum area of tention steel requirement in reinforced concrete beams (ningly reinforced) as per 15 456: 2000 is respectively: (Notations: As - area of steel, b-breadth of beam, d - effective depth of beam, D - depth of beam, f_p - characteristic yield strength of reinforcement).

Āns

- \times 1. $\frac{As_{min}}{b d} \ge \frac{0.78}{f_y}, \frac{As_{max}}{b D} \le 0.04$
- $\sqrt{2} \frac{As_{\min}}{b d} \ge \frac{0.85}{f_y}, \frac{As_{\max}}{b D} \le 0.04$
- \times 3. $\frac{As_{\min}}{b d} \ge \frac{0.75}{f_y}, \frac{As_{\max}}{b D} \le 0.4$
- \times 4. $\frac{As_{\min}}{bd} \ge \frac{0.8}{f_y}, \frac{As_{\max}}{bD} \le 0.05$

Question D: 6549784971

Status: Answered

Chosen Option 2

Q.22 The major compound(s) present in Ordinary Portland Cement responsible for the strength is are:

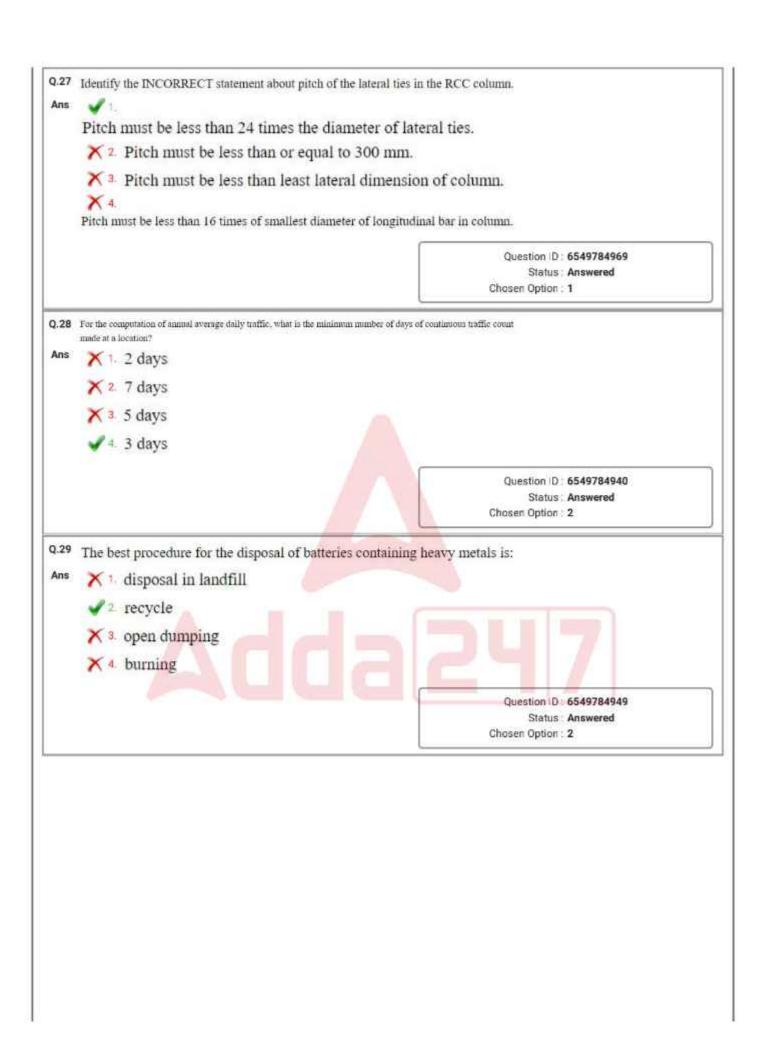
Ans

- X 1 tricalcium aluminate
- × 2 tetracalcium alumino ferrite
- 3. dicalcalcium silicate and tetracalcium alumino ferrite
- tricalcium silicate and dicalcium silicate

Question D: 6549784885

Status: Answered

Q.23 In connection with the flow of a fluid in a pipe (with parabolic velocity distribution), identify the correct statement regarding the kinetic energy correction factor a: Ans $\alpha_{laminar flow} = 2$ × 2. α_{laminar flow} = 1.33 × 3. α_{laminar flow} = 1 × 4. α_{laminar} flow < α_{turbulent} flow Question D: 6549784927 Status: Not Answered Chosen Option: --Q.24 Identify the method for the forecast of population of a town, wherein the percentage increase in population from decade to decade, is assumed to remain constant. Ans Geometric increase method X 2 Logistic curve method X 3. Incremental increase method X 4. Arithmetic increase method Question D: 6549784951 Status: Answered Chosen Option: 4 If excess silica is present in bricks, it makes the bricks: Ans brittle and weak on burning X 2 crack on drying X 3 warp X 4. melt on burning Question D: 6549784879 Status: Answered Chosen Option: 1 Q.26 A diversion head work constructed across a river with heading up of water effected by the gates alone is called: Ans Cross regulator X 2 weir X 3 head regulator 4 barrage Question D: 6549784933 Status: Answered Chosen Option: 1



Q.30 Match the nems under List 1 (Terms associated with placing of concrete) with those under List 2 (Definition of the phenomena). Use codes in lists for matching.

List 1

- P. Mobility
- Q. Bleeding
- R. Segregation
- S. Consistency

List 2

- 1. Firmness of concrete
- 2. Separation of the constituents of a homogeneous mixture of concrete
- 3. Ability to be moulded
- 4. Water gain

Ans

- X 1. P-1, Q-4, R-3, S-2
- √ 2 P-3, Q-4, R-2, S-1
- X3. P-4, Q-3, R-1, S-2
- X 4 P-2, Q-4, R-1, S-3

Question D: 6549784964 Status: Answered

Chosen Option : 2

Q.31 A tie member in a truss girder is 250 mm x 14 mm in size. It is welded to a guisset plate 10 mm thick by a fillet weld. The overlap of the member is 300 mm. The weld is 6 mm in size. Find the strength of the joint if the welding is done as abown in Figure (welding is shown in thick black lines). Allowable shear stress in weld = 108 N mm².



Ans

- X 1 498.9 kN
- X 2 308.4 kN
- √ 3 385.6 kN
- X 4 514.3 kN

Question D: 6549784978

Status : Not Answered

Q.32 Select the incorrect statement from following. Ans X 1. In the total station, the angles and distances are recorded in the digital form. The total station cannot measure horizontal distance less than 2 km. X 3. The total station has all facilities of tacheometer operated electronically. X 4 The total station is operated through the control panel. Question D: 6549784911 Status: Answered Chosen Option: 2 Q.33 The correction due to wrong alignment of the tape: Ans is always negative 2 can be positive or negative X 3. depends upon whether the alignment is wrong to the right or left of the line is always positive Question D: 6549784905 Status: Answered Chosen Option: 1 Q.34 For M25 concrete the modulus of elasticity of concrete can be in the acceptable range of: Ans √ 1 20000 to 30000 N/mm² × 2 30000 to 40000 N/mm² X 3. 10000 to 15000 N/mm² X 4 15000 to 20000 N/mm² Question D: 6549784965 Status: Answered Chosen Option: 1 Q.35 Regulatory signs are generally circular in shape. Identify a regulatory sign which is NOT circular in shape. No parking sign X 2 Restriction Ends sign X 4 Speed limit sign Question D: 6549784941 Status: Answered Chosen Option: 3

Q.36 In a trigonometric levelling, using a theodolite, vertical angles were measured to the vames fixed at 1 m and 4 m marks of a staff held vertical, as a station Q from the instrument kept at a station P. The vertical angles were 3° 30' and 6° 15'. Find the horizontal distance PQ. (take tan $3^\circ 30^\circ = 0.0611$; tan $6^\circ 15^\circ = 0.1095$; tan $9^\circ 45^\circ = 0.172$) Ans ✓ 1. 62 m × 2. 34.2 m X 3. 17. 8 m X 4. 55,6 m Question D: 6549784912 Status: Not Answered Chosen Option: --Q.37 The assumption made in the theory of simple bending that plane sections before bending remains plane after bending Ans X occurrence of maximum stress at the extreme fibers 2 bending stress becoming zero at the neutral axis X 3. the stress diagram being linear strain diagram being linear Question D: 6549784955 Status: Answered Chosen Option: 4 Q.38 Given below are the statements (S1 and S2) associated with fresh concrete. S1: As the compaction factor of a concrete sample increases, its slump value also increases. S2: Slump cone test helps in qualitatively understanding the strength of concrete. Identify the correct inference(s). Ans X 1. Both S1 and S2 are true. X 2 S1 is false and S2 is true. X 3 Both S1 and S2 are false. \$\mathscr{A} \text{ \text{ S1 is true and S2 is false.} Question D: 6549784966 Status: Answered Chosen Option: 4

Q.39

In the Bernoulli's equation ($\frac{p}{r} + \frac{s^2}{2g} + Z = \text{constant}$, with notations : p - intensity of pressure, y - unit weight,

v - velocity of flow, g - acceleration due to gravity, Z - elevation above datum), each term in the equation

Ans

energy in N.m/N weight of fluid

× 2 power in kW/kg mass of fluid

X 3. energy in N.m of fluid

X 4 energy in N.m/kg mass of fluid

Question | D : 6549784922

Status: Answered

Chosen Option: 1

Q.40 The different processes underwater treatment are given under List 1, and the purpose of the treatment process is given under List 2.

Match the items in List 1 with those under List 2 using the codes in lists.

List 1

C. Filtration

D. Aemtion

E. Zeolite process

F. Ozone treatment

List 2

1. Disinfection

2. Removal of calcium and magnesium catious.

3. Removal of suspended impurities

4. Process converts Iron and mangamete from their soluble state to insoluble state

Ans

Question D: 6549784952

Status: Answered

Chosen Option: 2

Q.41

A smart station is used to indicate:

Ans

a total station with an integrated GPS module

2 a total station attached to a computer



total station with an electromagnetic distance measuring equipment



a total station with software to calculate and display quantities

Question D: 6549784906

Status: Answered

Q.42 If three centrifugal pumps identical in all respects and each capable of delivering a discharge Q against a head H are connected in parallel, the resulting discharge is: Ans X 1 Q against a head 3H √ 2. 3Q against a head H X 3 3Q against a head √3 H X 4 3Q against a head 3H Question | D: 6549784924 Status: Answered Chosen Option: 2 Q.43 Concrete recommended for the construction of radiation shields in nuclear plants is: Ans √ high density concrete X 2 medium density concrete X 3 light weight concrete X 4 fibre reinforced concrete Question | D : 6549784882 Status: Answered Chosen Option: 1 Q.44 According to 19 456: 2000, the percentage increase in the design bond stress in limit state, for deformed bars in tension (conforming to IS 1786), with respect to plain bars in tension is: Ans X 1. 50 3. 35 Question D: 6549784967 Status: Answered Chosen Option 4

Q.45 An equilateral triangular plate of side a is immersed in water with one side at free water surface as in the given figure. The centre of pressure is below the water surface at a depth of:



- \times 4. $\frac{a}{\sqrt{3}}$

Question D: 6549784929

Status: Answered

Chosen Option: 1

Q.46 Identify the one which is NOT an ozone layer depleting chemical.

- Ans X 1. Methyl bromide
 - X 2 Chlorofluorocarbons
 - Copper sulphate
 - X 4 Carbon tetrachloride

Question D: 6549784950

Status: Answered

Chosen Option: 3

Q.47 What is the minimum period before striking the formwork to RCC slabs (with props to be refixed immediately after removal of formwork)?

Ans

- √ 1 3 days
- X 2 14 days
- X 3. 7 days
- X 4 21 days

Question D: 6549784961

Status: Answered

Q.48 The following details pertain to the crossing of a canal and a drain. Bed level of Canal = +151 m; Full Supply depth of Canal = 1.5 m; Bed level of Drain = - 149.4, depth of flow in the drain at high flood level = 2.1 m. The suitable type of cross drainage work is: Ans X 1 aqueduct X 2. canal syphon X 4 super passage Question |D: 6549784935 Status: Answered Chosen Option: 3 Q.49 A watershed having an area of 4 km² is subjected to a minfall event of 9 cm, thereby generating stream flow at the outlet of the watershed for 10 h. If the average stream flow rate at the outlet of the catchment is 5 m3/s, occurring for a period of 10 h, the cunoff-co-efficient of the watershed for the storm is: Ans X 1. 0.3 ¥ 2 0.5 X 3. 0.6 X 4. 0.4 Question D: 6549784937 Status: Not Answered Chosen Option: --Q.50 A normally consolidated clay layer settled by 20 mm when the effective stress was increased from 25 to 50 kN m². What will be the settlement when the effective stress is increased from 50 to 100 kN/m²? Ans X 1. 5 mm X 2. 40 mm ✓ 3 20 mm X 4 10 mm Question D: 6549784920 Status: Answered Chosen Option: 3 Q.51 A plot of land measures: 500 m². The built up area is 300 m². The plinth area rate of this building is ₹5,000 per m² and includes the cost of water supply, sanitary and electric installations. The age of the building is 40 years. The cost of land in \$6,000 per m2. Compute the total value of the property. Assume the fixed percentage of depreciation on 2. (take 0.9840 - 0.4457) Ans ₹36,68,550/-X 2 ₹37,10,850/-X 3 ₹38,50,000/-X 4. ₹39,60,150/-Question D: 6549784902 Status: Not Answered Chosen Option: --

Q.52 A building costing ₹70,00,000 :- was constructed on a free hold land measuring 1000 m² in a city recently. Prevailing rate of land in the neighbourhood is ₹1,500 :- per m². If the expenditure on an outgoing including sinking fund is ₹2,40,000 :- per annum, work out the gross sent (in ₹) of the property per month. Assume a net seturn of 6% on the cost of building and 4% on cost of land.

Ans



X 2. 35,000/-

X 3. 55,000/-

X 4 40,000/-

Question D: 6549784901 Status: Not Answered

Chosen Option: --

Q.53 A solid circular shaft having a diameter of 100 mm is subjected to a torque of 8 kN m. Determine the maximum shear stress induced in the shaft (in N/mm² units)?

Ans

$$\frac{1}{\pi}$$

$$\times$$
 3. $\frac{144}{\pi}$



Question ID: 6549784959 Status: Answered

Chosen Option: 4

Q.54 The thinner used in plastic paint is:

Ans

X 1. naptha



X 3 oil

X 4 spirit

Question ID: 6549784881 Status: Answered

Q.55 A cantilever beam of span L is subjected to a clockwise moment of M at the free end. The shear force at any point on Ans X 1. M/L2 √ 2 Zero X 3. M/L X 4 2M/L Question D: 6549784956 Status: Answered Chosen Option: 2 Q.56 The unconfined strength of three types of cohesive soils: Soil A. Soil B, and Soil C, are 35 kN/m² and 450 kN/m² and 140 kN/m² respectively. Identify the correct statement based on the consistency behaviour of soils. Ans X Soil A is categorised as Soft, soil B is categorised as Stiff and Soil C is categorised as Hard. Soil A is categorised as Hard, soil B is categorised as Stiff and Soil C is categorised as Soft. Soil A is categorised as Soft, soil B is categorised as Hard and Soil C is categorised as Stiff. X 4 Soil A is categorised as Stiff, soil B is categorised as Hard and Soil C is categorised as Soft. Question D: 6549784919 Status: Answered Chosen Option: 3 Q.57 The purpose of fire proofing of timber is to: Ans X 1. extinguish the fire and dissipate the heat generated × 2 not allow fire to come closer to wood X 3 extinguish the fire by absorbing the heat generated 4 make it difficult to ignite and support its own combustion Question |D: 6549784880 Status: Answered Chosen Option: 4

Q.58 The interior angles of closed traverse ABCDE are measured as below:

Angle A = 76° 12' 00"

Angle B = 112° 12' 00"

Angle C = 98° 12' 40"

The bearing of initial line is 217° 50° 20". The bearing of line BC will be:

Ans

✓ 1-150° 2' 20"

X 2 170° 5' 18"

X 3 122° 4' 18"

X 4 330° 2' 20"

Question D: 6549784909

Status : Not Attempted and Marked For Review

Chosen Option: --

Q.59 Which of the following statements pertaining to steel are true or false?

ST1: Mild steel has higher ultimate tensile strength when compared to High Carbon Steel.

ST2: TOR steel is high strength deformed bars with high yield and bond strength.

Ans

N Both ST1 and ST2 are false.

ST1 is false and ST2 is true.

★ 3. ST1 is true and ST2 is false.

X 4 Both ST1 and ST2 are true.

Question D: 6549784888

Status: Answered

Q.60 March the items in List 1 (Property of cement) with those under List 2 (Method for conduct of test) using the codes in

List I	List 2 1. Vicat's Apparatus test	
P. Soundness Test		
Q. Fineness	2. Le-Chatelier apparatus	
R. Setting time	3. Briquette test	
S. Tensile strength	Air permeability method	

- Ans X 1. P-4, Q-2, R-3, S-1
 - X 2 P-1, Q-4, R-2, S-3
 - X a. P-3, Q-4, R-2, S-1
 - 4 P-2, Q-4, R-1, S-3

Question D: 6549784886

Status: Answered

Chosen Option: 4

Q.61 In canal formation, the term 'balancing depth' is used to indicate:

Ans



depth of cutting for minimum cross section area, for canal section formed fully in cutting



depth of filling, for which area of cutting - area of filling, for canal section formed partly in cutting and partly in filling



depth of filling for minimum cross section area for canal section formed fully in filling

depth of cutting, for which area of cutting - area of filling, for canal section formed partly in cutting and partly in

Question D: 6549784931 Status: Answered

Chosen Option: 4

Q.62 If the amount of annuity is paid for a definite number of periods or years it is known as:

- × 1 perpetual annuity
- 2 annuity certain
- X 3 annuity due
- X 4 deferred annuity

Question D: 6549784898

Status: Answered

Q.63 Out of the cohesion limit, sticky limit, liquid limit, plastic limit and shrinkage limit, the most important in engineering Ans Cohesion limit, plastic limit and liquid limit 2 liquid limit, plastic limit, shrinkage limit X 3. cohesion limit, plastic limit, shrinkage limit and sticky limit A plastic limit, shrinkage limit and cohesion limit Question D: 6549784915 Status: Answered Chosen Option: 2 Which of the following is considered as Ultimate (safety) limit state in limit state design of steel structures? Ans Vibrations in structure causing discomfort Corrosion and durability X 3 Repairable damage due to deflection Fracture due to Fatigue Question D: 6549784976 Status: Answered Chosen Option: 3 Q.65 No deduction is made in the quantity estimation for brick work in cement mortar for openings having size up to: Ans ✓ 1- 0.1 m² X 2 0.5 m2 X 3 0.01 m² X 4. 1.0 m² Question D: 6549784891 Status: Answered Chosen Option: 2 Q.66 Consider different types of soils i.e. Fine sand(F), Homogeneous clay(C), Coarse gravel(G), Silty clay(S), Arrange the soils in the increasing order of their permeability (low to high values). Ans X 1. S. C. G. F X 2 S, C, F, G √ 3 C, S, F, G X 4 C, F, S, G Question D: 6549784914 Status : Answered Chosen Option: 3

Q.67 An excavation is in the form of a square of side 30 m, shown in the Figure, has the following depth of excavation at the four corners and the intersection of the diagonals: 2.85 m at A, 2.45 m at B, 3.15 m at C, 3.55 m at D and 2.95 m at E.

Find the volume of earth excavation from the pit (range of value may be given).



Ans

X 1. 1865 to 1875 m³

√ 2 2685 to 2700 m³

X 3. 2285 to 2300 m³

X 4. 2845 to 2860 m³

Question D: 6549784895 Status: Not Answered

Chosen Option: --

Q.68 The samples of burne clay bracks from 5 different agencies (A1 to A5) are tested and the results are tabulated as follows. The criteria to be adopted correspond to the image of bricks of class 15 and above, as per IS 1077. Which samples are recommended for will construction?

Id	Water absorption (%)	Average Compressive strength (kN/m ²)	
A1	20	20000	
A2	12	15500	
A3:	24	9100	
A4	10	28900	
A5	14	12000	

Ans

✓ 1 Only A2 and A4

X 2. Only A3 and A5

X 3. A1, A2, A3 and A5

X 4 Only A1, A3 and A5

da[24]7

Question | D : 6549784890 Status : Answered Chosen Option : 1

Q.69 The category of fluids in which shear stress is linearly related to the velocity gradient is known as:

Ans

X 1 dilatant

√ 2 Newtonian

X 3. ideal

X 4 pseudo plastic

Question | D : 6549784921

Status: Answered

Q.70 According to 15 456 : 2000, the minimum grade of concrete required for plain concrete and reinforced cement concrete works, under exposure condition "very severe" are ____ and ____ respectively. Ans X 1. M15, M40 X 2 M10, M25 √3 M20, M35 X 4 M25, M40 Question ID: 6549784963 Status: Answered Chosen Option: 3 The degree of compaction of a soil is characterised by its: Ans X1 consistency X 2 compressibility dry density X 4 saturated unit weight Question D: 6549784916 Status: Answered Chosen Option: 3 A common dimensionless parameter used in fluid mechanics is: X 1 specific weight Ans X 2 kinematic viscosity co-efficient of discharge X 4 angular velocity Question D: 6549784923 Status: Answered Chosen Option: 1 Q.73 The magnetic bearing of a survey line is found to be 33° 40°. If the declination is 3° 40° E, the true bearing is: Ans X 1.30° 00° X 2 41° 00' X 3. 33° 40' 4 37° 20° Question D: 6549784907 Status Not Attempted and Marked For Review Chosen Option: --

Q.74 A levelling work was curried out along a falling gradient using a dumpy level and a levelling staff of 3 m height. The following successive readings were taken 1.55, 2.655, 0.54, 1.68 m. The level was shifted after the second reading. What is the correct order of booking the readings in the field book? (BS: back sight, FS: Fore sight, IS: Intermediate sight) Ans X 1 BS, IS, FS, BS X 2 BS, IS, IS, FS Ja BS, FS, BS, FS X 4 BS, FS, IS, FS Question D: 6549784910 Status: Not Answered Chosen Option: --Q.75 As per 15 800: 2007, cross-sections, in which the extreme fibre in compression can reach yield stress, but cannot develop the plastic moment of resistance, due to local buckling, are known as: Ans X 1 compact X 2 slender √3 semi-compact X 4 plastic Question D: 6549784975 Status: Answered Chosen Option: 2 Q.76 A gravity dam resists the external forces by:

Ans

its self-weight

X 2 buttresses which transfer load to foundation

X 3. arch action to abutments

X 4 shear strength of soil

Question D: 6549784930 Status: Answered

Q.77 The departure of a survey line of a traverse is defined as: Ans the projection of the line in any reference direction. X 2 its coordinate length measured in the north -south meridian its coordinate length measured at right angles to the meridian direction X 4 its coordinate length measured parallel to an assumed meridian direction Question D: 6549784904 Status: Answered Chosen Option: 3 Q.78 Aitificial harbours are constructed by providing structures which extend from the land to the sea so as to create a calm area for the berthing of vessels. Such structures are known as: Ans breakwater 2 groin X 3. wharf X 4 jetty Ouestion D: 6549784942 Status: Answered Chosen Option: 2 Q.79 In the case of a dumpy level, the two peg test is performed to ensure that: Ans line of collimation of the telescope is parallel to the bubble tube axis × 2 horizontal cross hairs is parallel to the bubble tube axis X 3. horizontal cross hairs is in a plane perpendicular to the vertical axis the axis of the bubble tube is perpendicular to the vertical axis Question D: 6549784908 Status: Answered Chosen Option: 1

Q.80 A prism square is used to:

Ans

- set out a horizontal circular curve.
- X

set out a line at 45° to a survey line, without any linear measurement

- X 3 get an enlarged view of station marks
- 4 set a line at right angles to a survey line

Question ID: 6549784903 Status: Answered Chosen Option: 4

Q.81 A town has a projected population of 80,000 spread over an area of 0.6 km². Find the design discharge for the separate sewer line by assuming rate of water supply of 200 litre capita day and out of this total supply only 75% reaches in sewer as wastewater. Assume a peak factor of 2.

Ans

- X 1. 0.14 m³/s
 - X 2. 0.07 m³/s
 - √ 3 0.28 m³/s

X 4 0.56 m³/s

Question ID: 6549784953 Status: Not Answered

Chosen Option: --

Q.82 Among the following treatment units, anaerobic decomposition takes place in:

Ans

- X 1. oxidation pond
- ★ 2 activated sludge process
- √ 3 Imhoff tank
- X 4 trickling filter

Question D : 6549784947

Status: Answered

Q.83 The base width of an elementary profile of a gravity dam of height H is B. If G is the specific gravity of the material and C co-efficient of uplift, the relationship for no tension development at the heal of dam in:

Ans

$$X = \frac{H}{(G-C)}$$

$$X = B = \frac{H}{C\sqrt{G-C}}$$

$$\times$$
 3. $B = H \sqrt{G - C}$

$$\checkmark A B = \frac{H}{\sqrt{G-C}}$$

Question D: 6549784936 Status: Answered

Chosen Option: 3

Q.84 Which of the following pairs is correctly matched with respect to type of stone, based on its formation?

Ans

✓ Lime stone : sedimentary rock

X 2 Basalt : Metamorphic rock

✗ 3. Granite : Argillaceous rock

X 4 Sandstone : Igneous rock

Question ID: 6549784887 Status: Answered

Chosen Option: 1

Q.85 A Cippoletti weir used to measure discharge in an open channel is a:

Ans

★ 1. triangular weir with central angle 90°

× 2 trapezoidal weir with side slope 4 Horizontal: 1 vertical

V3

trapezoidal weir with side slope 1 vertical: (1/4) horizontal

X 4 rectangular weir with sharp edges

Question ID: 6549784926

Status: Not Answered

Chosen Option : --

Q.86 Lacustrine soils are those which are: Ans transported by rivers and streams X 2 deposited in sea beds X 3 transported by wind deposited in lake beds Question |D : 6549784913 Status: Answered Chosen Option: 4 Q.87 For sewage treatment using an oxidation pond, when it gets overloaded, a chemical that is added to stimulate the algal X 1 sodium chloride Ans X 2. bleaching powder X 3. calcium hydroxide sodium nitrate Question D: 6549784948 Status: Answered Chosen Option: 3 Q.88 Under limit state of collapse in flexure, the ratio of limiting values of the depth of neutral axis to the depth of beam (x_{0 max}/d) for a reinforced concrete beam with Fe415 grade steel, is: Ans X 1- 0.46 X 2 0.53 3 0.48 X 4. 0.55 Question D: 6549784970 Status: Answered Chosen Option: 3 The area under a hyetograph represents: Ans X1 total runoff received in the period × 2 total intensity of rainfall received in the period 3 total precipitation received in that period X 4 average intensity of rainfall received in the period Question D: 6549784932 Status: Answered Chosen Option: 2

Q.90 The value of Poisson's ratio of concrete lies approximately in the range:

Ans 1. 0.4 to 0.47

X 2 0.31 to 0.35

₹3 0.15 to 0.2

X 4. 0.25 to 0.3

Question | D : 6549784962 Status : Answered Chosen Option : 3

Q.91 The difference in 7 days compressive strength of cubes or cylinders prepared with impure and pure waters should not differ by more than:

Ans

X 1. 2%

¥2 10%

X 3. 5%

X 4. 12%

Question |D : 6549784883 Status: Not Answered

Chasen Option: --

Q.92 The common characteristics of building material under stress are given under List 1 and the corresponding properties are given under List 2. Match the items under List 1 with those under List 2 many the codes in the lists.

List I

- A. Ductility
- B. Brittleness
- C. Toughness
- D. Mallesbility

List 2

- 1. Material can withstand heavy shock loads
- 2. Material can be hammered into sheets without rupture
- 3. Material can be drawn out into wires without necking down
- 4. Material fail suddenly without warning

Ans

√ I. A-3, B-4, C-1, D-2

X 2. A-2, B-3, C-4, D-1

X 3. A-3, B-4, C-2, D-1

X 4. A-2, B-4, C-1, D-3

Question ID : 6549784889 Status : Answered

Q.93 The width of carriageway for a two lane road with raised kerbs, as recommended by IRC is: Ans X 1. 7.0 m X 2 5.5 m X 3. 8.5 m 4. 7.5 m Question D: 6549784939 Status: Answered Chosen Option: 4 Q.94 A cantilever beam of span L carries a clockwise moment M at the free end. The bending moment diagram is: Ans triangle with zero bending moment at the free end and bending moment = $\frac{M}{r}$ at the support X 2. triangle with zero bending moment at support and bending moment = M at free end \times 3 rectangle with a constant bending moment = $\frac{M}{t}$ rectangle with a constant bending moment = M Question D: 6549784958 Status: Answered Chosen Option: 4 Q.95 A person has got a land property in an urban residential area where it is proposed to build a multi-storied commercial complex. The valuation of the landed property is NOT necessary for Ans taking permission for the construction of a commercial building from the local body X 2 rent fixation X 3 security for loans or mortgage, when the loans are taken X 4 assessment of tax on the property Question D: 6549784897 Status: Not Answered Chosen Option: --Q.96 Which of the following statements about gap grading of aggregates is true? Ans In gap grading, one or more intermediate fractions of particles are absent. X 2 In gap grading, the grading curve is smooth. 3 In gap grading, all the particles are of uniform size. X 4 Gap graded has wide distribution of all grain sizes present.

> Question D: 6549784884 Status: Answered Chosen Option: 1

Q.97 Bending moment coefficients for slabs spanning in two directions at right angle and simply supported on all four sides are given in the table.

d _E	0.062	0.074	0.054
α _y	0.062	0.061	0.059
L/L	1.0	1.1	1.2

If effective longer and shorter span of the slab are 4.4 m and 4 m respectively and factored load acting is 8 kN/m², ultimate bending moment per metre width acting in two directions will be:

Ans

X 1 9.47 kN-m and 12.72kN-m

X 2. 11.46 kN-m and 8.45 kN-m

X 3. 11.46 kN-m and 9.47 kN-m

4 9.47 kN-m and 7.81kN-m

Question D: 6549784972 Status: Not Answered

Chosen Option: --

Q.98 The net annual letting value of property which is obtained after deducting the amount spent on yearly repairs from the gross income is known as:

Ans

X 1 salvage value

X 2. scrap value

X 3 book value

rateable value

Question | D : 6549784900

Status: Answered

Chosen Option: 4

Q.99 An open pand an shown in the Figure has been constructed. It is in the form of a square of side 4 m at the bottom, having a depth of 3 m from the ground level. The side stope of the pand is 2 : 1 (box/zontal to vertical). It is proposed to provide a lining using geotextiles to the bottom and sides of pand to reduce the seepage loss. If the cost of geotextile material is ₹600 /- per m² and the cost of laying the material is ₹50 /- per m². Determine the estimated cost (m ₹) for lining the pand. (Approximate to the nearest value) (Take √45 = 6.7082)

DOWNERS INCOME TO BE SHOWN



Ans

X 1. 1.56.388/-

X 2 88,400/-

√ 3 1.84,813/-

X 4. 1.74.425/-

Question ID: 6549784896 Status: Not Answered

Q.100 An irrigation canal is trapezoidal in section with bottom width 1 m and depth of 2 m, side slope 1.5 H : 4 V is formed in cutting. The cross - section area of the canal is:

Ans 8 m²

X 2 6.5 m²

X 3. 8.2 m²

X 4. 7 m²

Question D: 6549784934

Status: Answered

