Adda247

Combined Graduate level Examination 2023 Tier I

Roll Number	
Candidate Name	
Venue Name	iON Digital Zone iDZ Bhagwanpur
Exam Date	21/07/2023
Exam Time	11:45 AM - 12:45 PM
Subject	Combined Graduate Level Examination Tier I 2023

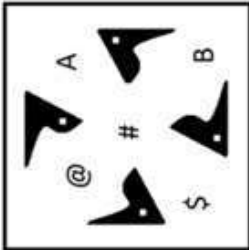Section : **General Intelligence and Reasoning**

Q.1 Select the correct mirror image from the following options, when the mirror is placed on the right side of the given figure.
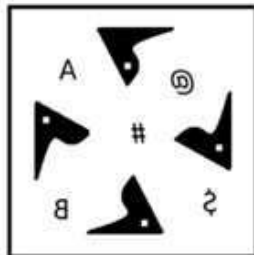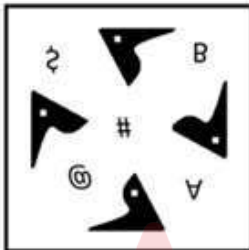

Ans

X 1.

✔ 2.

X 3.

X 4.
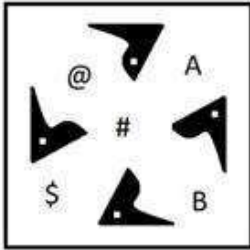
Q.2 यदि,

'B % D' का अर्थ है 'B, D का भाई है',

'B & D' का अर्थ है 'B, D की मां है',

'B × D' का अर्थ है 'B, D का पति है',

'B # D' का अर्थ है 'B, D की बहन है',

'B $ D' का अर्थ है 'B, D का बेटा है',

'B @ D' का अर्थ है 'B, D का पिता है',

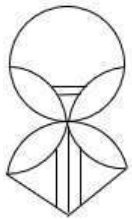तो दिए गए व्यंजक में A का E से क्या संबंध है?

A % D $ F # B % E × S
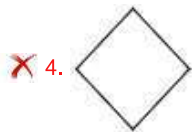
Ans ✗ 1. पति

✔ 2. भांजा

✗ 3. मामा

✗ 4. भाई

Q.3 Select the option figure which is embedded in the given figure (rotation is NOT allowed).

Ans

✗ 1.

✔ 2.

✗ 3.

✗ 4.

Q.4 The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) is/are followed in all the number-pairs, except one. Find that odd number-pair.

Ans ✘ 1. (7, 89)

✘ 2. (8, 102)

✔ 3. (5, 60)

✘ 4. (6, 76)

> Question ID : **264330143690**
> Status : **Answered**
> Chosen Option : **3**

Q.5 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
MOTHER : SGKXTS :: SIMPLE : FNSQNY :: DELIGHT : ?

Ans ✘ 1. UJJMQJJ

✘ 2. VJJMQKK

✔ 3. UJJMQKK

✘ 4. THGILED

> Question ID : **26433090020**
> Status : **Answered**
> Chosen Option : **1**

Q.6 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1. Phantom
2. Photograph
3. Philosophy
4. Physical
5. Pharynx
6. Physics

Ans ✘ 1. 5, 1, 3, 2, 4, 6

✘ 2. 1, 5, 3, 2, 6, 4

✔ 3. 1, 5, 3, 2, 4, 6

✘ 4. 5, 1, 3, 2, 6, 4

> Question ID : **264330129461**
> Status : **Answered**
> Chosen Option : **3**

Q.7 A paper is folded and cut as shown below. How will it appear when unfolded?

Ans

✔ 1.

✘ 2.

✘ 3.

✘ 4.
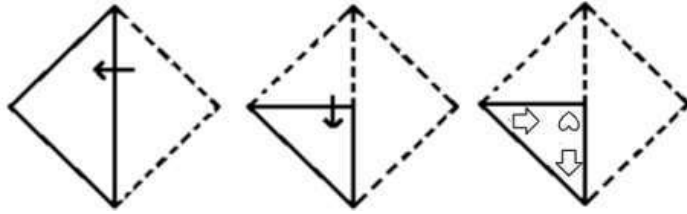
Q.8 Three statements are given, followed by four conclusions numbered I, II, III and IV. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
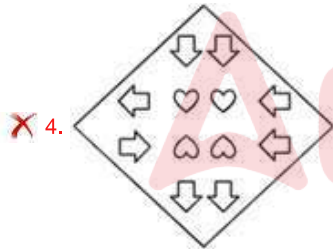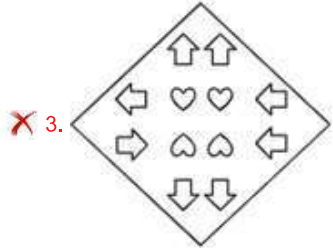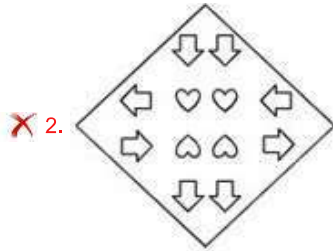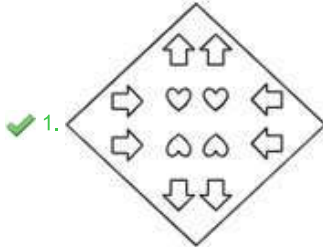
Statements:
Some trees are leaves.
Some leaves are flowers.
Some flowers are branches.

Conclusions:
I. Some trees are flowers.
II. Some leaves are branches.
III. Some branches are flowers.
IV. Some branches are leaves.

Ans ✗ 1. Only conclusions II and III follow

✗ 2. Only conclusions I and II follow

✔ 3. Only conclusion III follows

✗ 4. None of the conclusions follow

Question ID : **26433085686**
Status : **Answered**
Chosen Option : **3**

Q.9 In a certain code language, 'BEAK' is coded as '4392' and 'RAKE' is coded as '9034'. What is the code for 'B' in the given code language?

Ans ✗ 1. 3

✔ 2. 2

✗ 3. 4

✗ 4. 9

Question ID : **264330126002**
Status : **Answered**
Chosen Option : **2**

Q.10 Study the given pattern carefully and select the number that can replace the question mark (?) in it.
(5, 14, 3)
(3, 24, 7)
(9, 30, ?)
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans ✔ 1. 7

✗ 2. 5

✗ 3. 13

✗ 4. 9

Question ID : **26433082468**
Status : **Answered**
Chosen Option : **1**

Q.11 In this question, three 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 follows/follow from the statements.

Statements:
Some mirrors are glass.
All glass are taps.
Some taps are pens.

Conclusions:
I. Some glass are mirrors.
II. All taps are glass.
III. Some pens are taps.

Ans ✗ 1. None of the conclusions follows.

✗ 2. Only conclusions I and II follow.

✗ 3. Only conclusion II follows.

✔ 4. Only conclusions I and III follow.

Q.12 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown below. Choose the figure that would most closely resemble the unfolded form of the paper.

Ans

✗ 1.

✗ 2.

✗ 3.
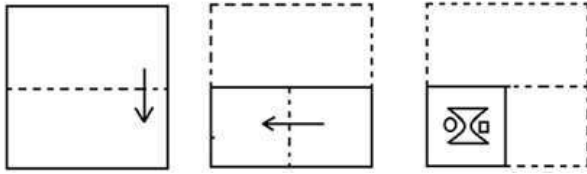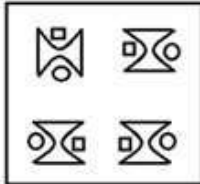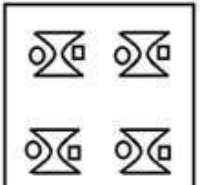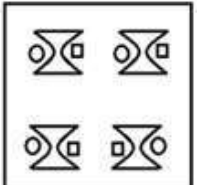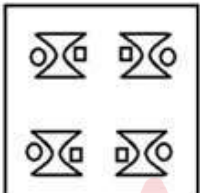
✔ 4.

Q.13 Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.
T_OJEW_TRO_EWF_ROJ _WFTR_JE_F

Ans ✔ 1. RFJTEOW

✗ 2. RJFOTWE

✗ 3. RJFTWOE

✗ 4. RFJOTEW

Q.14 Which two numbers and two signs should be interchanged in the following equation to make it correct?

7 × 14 ÷ 6 + 12 + 6 = 30

Ans ✗ 1. 7 and 6, × and ÷

✔ 2. 7 and 14, × and ÷

✗ 3. 7 and 6, ÷ and +

✗ 4. 7 and 14, × and +

Q.15 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.
160 : 4 :: 250 : 5 :: 360 : ?

Ans ✔ 1. 6

✗ 2. 9

✗ 3. 4

✗ 4. 10

Q.16 Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.
74 * 34 * 78 * 23 * 23 * 30

Ans ✗ 1. ÷, −, +, ×, =

✗ 2. +, ÷, ×, −, =

✔ 3. +, −, +, −, =

✗ 4. −, ÷, +, ×, =

Q.17 Select the set in which the numbers are related in the same way as are the numbers of the given sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /Subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
(5, 30, 60)
(11, 66, 132)

Ans ✗ 1. (6, 42, 148)

✔ 2. (14, 84, 168)

✗ 3. (14, 16, 118)

✗ 4. (2, 10, 16)

Q.18 Select the figure that will replace the question mark (?) in the following figure series.

□   U
   B
X   ↑
	∩
	   U
	B ↑
		X ↑
		   ∩
		B U
			9 ↑
			   9
			∩ =
				B
				   9
				     =
					?

Ans

✘ 1.

=	∩
	↑
B	9

✘ 2.

=	B
	↑
∩	9

✘ 3.

=	B
	9
L	↑

✔ 4.

=	B
	↑
L	9
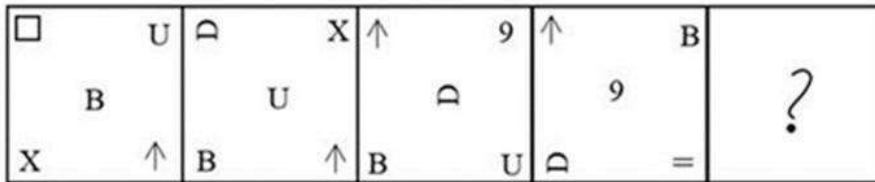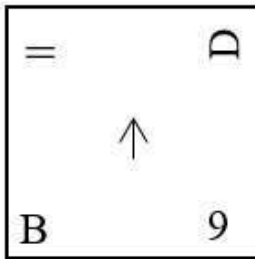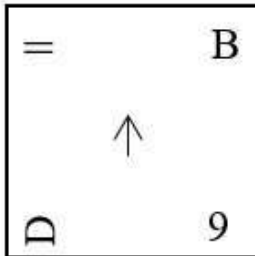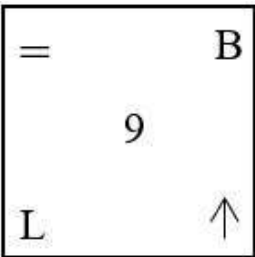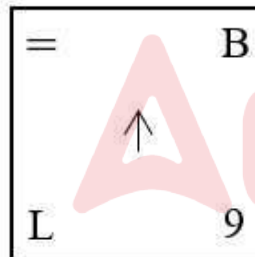
Q.19 Select the figure from the options that can replace the question mark (?) and complete the given pattern.

C P =	ɹ ↄ	= d ↄ ɔ	ↄ d	**?**

Ans

✗ 1.

P

C

✗ 2.

C   P

=

✗ 3.

P

=   ↄ

✔ 4.

P

=   C
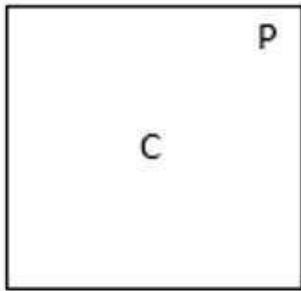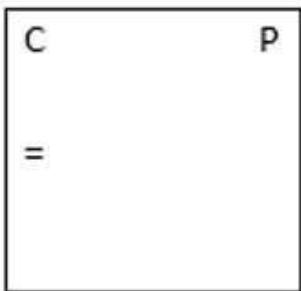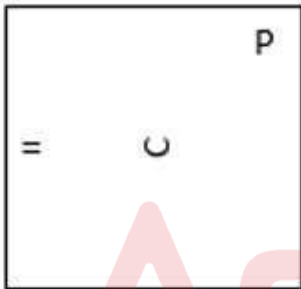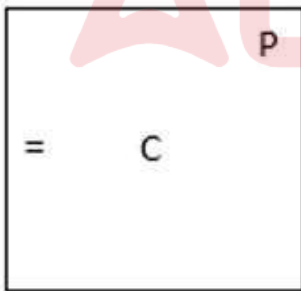
Q.20 Which of the following letter-clusters will replace the question mark (?) in the given series?
EIMC, DKOD, CMQE, ?, AQUG

Ans
✗ 1. CPSF

✗ 2. COSF

✗ 3. BPSF

✓ 4. BOSF

Question ID : **26433089978**
Status : **Answered**
Chosen Option : **4**

Q.21 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
IDEOLOGY : YGILIYDC :: HARDWARE : YRUWDRUH :: ISOLATED : ?

Ans
✗ 1. XCVFWIA

✗ 2. BUSIMAQS

✗ 3. JOKLERD

✓ 4. DYTULISC

Question ID : **26433069028**
Status : **Not Answered**
Chosen Option : **--**

Q.22 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
321 * 3 * 236 * 5 * 248 * 4 * 20 = 384

Ans
✓ 1. +, −, ×, +, ÷, ×

✗ 2. −, +, ×, −, ÷, +

✗ 3. ÷, +, −, ×, +, −

✗ 4. ×, +, −, ÷, +, −

Question ID : **26433056524**
Status : **Answered**
Chosen Option : **2**

Q.23 Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.
P _ _ MO _ ST_ OP _ TM _ _ S _ MO

Ans
✓ 1. STPMSOPT

✗ 2. TSSMPOPT

✗ 3. STSMPOPT

✗ 4. STPSMOPT

Question ID : **26433090001**
Status : **Answered**
Chosen Option : **1**

Q.24 In a certain code language, 'CHORUS' is coded as UVTPJD and 'ANTHEM' is coded as OFJUPB. How will 'VOLUME' be coded in the same language?

Ans   ✗ 1. GNXMPW

     ✗ 2. GNWNPW

     ✗ 3. HMWNPV

     ✓ 4. GNWMQW

Question ID : **264330132216**
Status : **Answered**
Chosen Option : **4**

Q.25 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.
121 : 12 :: 225 : 16 :: 441 :?

Ans   ✗ 1. 21

     ✗ 2. 19

     ✗ 3. 23

     ✓ 4. 22

Question ID : **26433082874**
Status : **Answered**
Chosen Option : **4**

Section : **General Awareness**

Q.1 Which Article of the Indian Constitution stipulates that the law declared by the Supreme Court shall be binding on all courts within the territory of India?

Ans   ✓ 1. Article 141

     ✗ 2. Article 140

     ✗ 3. Article 142

     ✗ 4. Article 145

Question ID : **264330114498**
Status : **Not Answered**
Chosen Option : **--**

Q.2 Who among the following Sultans of Delhi started the system of Sijda and Paibos?

Ans   ✗ 1. Muhammad Bin Tughluq

     ✗ 2. Nasir ud din Muhammad

     ✓ 3. Ghiyas ud din Balban

     ✗ 4. Qutb ud-Din Aibak

Question ID : **264330113566**
Status : **Answered**
Chosen Option : **3**

Q.3 Someity is related to which of the following events?

Ans   ✗ 1. Tokyo Olympics 2020

      ✗ 2. Winter Olympics 2022

      ✗ 3. Commonwealth games 2022

      ✓ 4. Tokyo paralympic 2020

> Question ID : **264330132367**
> Status : **Answered**
> Chosen Option : **4**

Q.4 Pandit Kishan Maharaj of Benaras Gharana was a _____ player.

Ans   ✗ 1. santoor

      ✗ 2. flute

      ✗ 3. sarangi

      ✓ 4. tabla

> Question ID : **26433090692**
> Status : **Answered**
> Chosen Option : **4**

Q.5 Identify the last element from the fifth period.

Ans   ✗ 1. Helium

      ✗ 2. Yttrium

      ✗ 3. Rubidium

      ✓ 4. Xenon

> Question ID : **264330144063**
> Status : **Answered**
> Chosen Option : **3**

Q.6 The largest freshwater lake of India is _____ .

Ans   ✗ 1. Chilika

      ✗ 2. Koleru

      ✗ 3. Vembanad

      ✓ 4. Wular

> Question ID : **26433066520**
> Status : **Answered**
> Chosen Option : **4**

Q.7 Which of the following rights is guaranteed by Article 25 of the Indian Constitution?

Ans   ✓ 1. Right to freedom of religion

      ✗ 2. Cultural and educational rights

      ✗ 3. Right to equality

      ✗ 4. Right to constitutional remedies

> Question ID : **264330110788**
> Status : **Answered**
> Chosen Option : **1**

Q.8 Which water body separates Andaman in the north and Nicobar in the south?

Ans ✓ 1. Ten Degree Channel

✗ 2. Eight Degree Channel

✗ 3. Eleven Degree Channel

✗ 4. Nine Degree Channel

Question ID : **264330110650**

Status : **Answered**

Chosen Option : **1**

Q.9 On 30 January 2023, the two-day meeting of the first International Financial Architecture Working Group of G-20, being held under the chairmanship of India, was inaugurated by the Union Minister of Agriculture and Farmers Welfare, Narendra Singh Tomar and Minister of Food Processing Industries, Pashupati Kumar Paras in _____.

Ans ✗ 1. Bhubaneswar

✗ 2. New Delhi

✗ 3. Mumbai

✓ 4. Chandigarh

Question ID : **264330132588**

Status : **Answered**

Chosen Option : **2**

Q.10 Who among the following Mauryan rulers conquered Kalinga?

Ans ✓ 1. Ashoka

✗ 2. Bindusara

✗ 3. Brihadratha

✗ 4. Chandragupta Maurya

Question ID : **264330114063**

Status : **Answered**

Chosen Option : **1**

Q.11 The term 'Straight drive' is related to which of the following sports?

Ans ✗ 1. Hockey

✓ 2. Cricket

✗ 3. Football

✗ 4. Badminton

Question ID : **264330144208**

Status : **Not Answered**

Chosen Option : **--**

Q.12 Which organic compound has a pleasant almond aroma that is commonly used to impart almond flavour to chocolate and baked goods?

Ans ✗ 1. Manzanate

✓ 2. Benzaldehyde

✗ 3. Ethyl maltol

✗ 4. Isoamyl acetate

Question ID : **264330113490**

Status : **Not Answered**

Chosen Option : **--**

Q.13 शुद्ध राष्ट्रीय उत्पाद (Net National Product) क्या होता है?

Ans ✗ 1. सकल राष्ट्रीय उत्पाद और मूल्यह्रास का गुणनफल शुद्ध राष्ट्रीय उत्पाद होता है।

✗ 2. सकल राष्ट्रीय उत्पाद और विदेशियों की आय का योग शुद्ध राष्ट्रीय उत्पाद होता है।

✗ 3. शुद्ध राष्ट्रीय उत्पाद सकल राष्ट्रीय उत्पाद के बराबर होता है।

✓ 4. सकल राष्ट्रीय उत्पाद और मूल्यह्रास का अंतर शुद्ध राष्ट्रीय उत्पाद होता है।

Question ID : **26433054581**

Status : **Answered**

Chosen Option : **4**

Q.14 Match the columns.

Column-A (Enzyme/Protein)	Column-B (Role in DNA replication)
i. Helicase	a. Joins the 3′ end of the new DNA fragment to the 5′ end of the previous one
ii. RNA primase	b. Nucleotide polymerisation
iii. DNA polymerase	c. RNA primer synthesis
iv. DNA ligase	d. Opens up the DNA double helix

Ans ✗ 1. i-a, ii-b, iii-c, iv-d

✗ 2. i-b, ii-a, iii-d, iv-c

✓ 3. i-d, ii-c, iii-b, iv-a

✗ 4. i-b, ii-c, iii-a, iv-d

Question ID : **264330109928**

Status : **Answered**

Chosen Option : **4**

Q.15 सिख, बंदी छोड़ दिवस मनाते हैं जो किस हिंदू त्योहार के साथ मेल खाता है?

Ans ✗ 1. गणेश चतुर्थी

✗ 2. होली

✓ 3. दिवाली

✗ 4. दशहरा

Question ID : **264330114307**

Status : **Not Answered**

Chosen Option : **--**

Q.16 Under the PL 480 scheme, India used to import wheat from which country?

Ans ✗ 1. USSR

✓ 2. USA

✗ 3. France

✗ 4. UK

Question ID : **264330109398**

Status : **Not Answered**

Chosen Option : **--**

Q.17 Which crop is grown during the Zaid season in India?

Ans ✓ 1. Cucumber

✗ 2. Jowar

✗ 3. Bajra

✗ 4. Maize

Question ID : **264330110633**

Status : **Answered**

Chosen Option : **1**

Q.18 Kalakshetra style is associated with which Indian classical dance form?

Ans ✗ 1. Odissi

✗ 2. Kathak

✗ 3. Kuchipudi

✓ 4. Bharatanatyam

Question ID : **264330109582**

Status : **Not Answered**

Chosen Option : **--**

Q.19 When and at which place did the Jallianwala Bagh massacre take place?

Ans ✓ 1. On 13 April 1919, at Amritsar

✗ 2. On 12 April 1919, at Chauri Chaura

✗ 3. On 13 May 1918, at Amritsar

✗ 4. On 14 March 1919, at Amritsar

Question ID : **264330106611**

Status : **Answered**

Chosen Option : **1**

Q.20 V Satyanarayana Sarma, a Padma Shri awardee, was recognised for which of the following dance forms?

Ans ✗ 1. Odissi

✗ 2. Bharatanatyam

✗ 3. Kathak

✓ 4. Kuchipudi

Question ID : **26433055431**

Status : **Answered**

Chosen Option : **4**

Q.21 Which of the following cities of Nepal does NOT have a branch of 'Indian Citizen's Association of Nepal'?

Ans ✗ 1. Pokhara

✓ 2. Lalitpur

✗ 3. Bhairahawa

✗ 4. Damak

Question ID : **264330132762**

Status : **Not Answered**

Chosen Option : **--**

Q.22 In February 2022, Ministry of Agriculture and Farmers Welfare announced the launch of _____, which is a doorstep distribution drive to deliver crop insurance policies to farmers under the Pradhan Mantri Fasal Bima Yojana (PMFBY).

Ans ✓ 1. Meri Policy Mere Hath

✗ 2. Saubhagya scheme

✗ 3. SEED scheme

✗ 4. Kaushal Yojana

Question ID : **26433081874**

Status : **Answered**

Chosen Option : **1**

Q.23 In which of the following states Vidhan Sabha elections was not held in 2022?

Ans ✓ 1. Haryana

✗ 2. Goa

✗ 3. Punjab

✗ 4. Uttar Pradesh

Question ID : **26433081848**

Status : **Answered**

Chosen Option : **4**

Q.24 Who designed the administrative code to separate revenue administration from judicial administration?

Ans ✗ 1. Lord Lytton

✓ 2. Lord Cornwallis

✗ 3. Lord Auckland

✗ 4. Warren Hastings

Question ID : **264330132681**

Status : **Not Answered**

Chosen Option : **--**

Q.25 Identify the correct statement about Newlands' law of octaves.

Ans ✗ 1. He started with the element having the highest atomic mass (hydrogen) and ended at thorium which was the 56th element.

✗ 2. He started with the element having the lowest atomic mass (hydrogen) and ended at sodium.

✗ 3. He started with the element having the lowest atomic mass (hydrogen) and ended at aluminium.

✓ 4. He started with the element having the lowest atomic mass (hydrogen) and ended at thorium which was the 56th element.

Question ID : **26433064742**
Status : **Answered**
Chosen Option : **4**

Section : **Quantitative Aptitude**

Q.1 The distance between two towns is covered in 7 hours and 30 minutes at the speed of 72 km/h. The time saved if the speed is increased by 25% is:

Ans ✗ 1. 1 hour 36 minutes

✗ 2. 1 hour 50 minutes

✓ 3. 1 hour 30 minutes

✗ 4. 1 hour 20 minutes

Question ID : **264330103560**
Status : **Answered**
Chosen Option : **3**

Q.2 Simplify:

$$264 - \left[142 - \left\{75 + \left(38 - \left(\frac{5}{4} + \frac{11}{4}\right)\right)\right\}\right]$$

Ans ✓ 1. 231

✗ 2. 230

✗ 3. 232

✗ 4. 234

Question ID : **264330143503**
Status : **Answered**
Chosen Option : **1**

Q.3 The chart shows the population of seven districts of National Capital Territory of Delhi.

Sales

- A - 13%
- B - 16%
- C - 8%
- D - 17%
- E - 18%
- F - 13%
- G - 15%

If the total population of the seven districts is 150 crore, find the total population of A and D.

Ans ✅ 1. 45 Crore

❌ 2. 46 Crore

❌ 3. 40 Crore

❌ 4. 42 Crore

Q.4 Rice worth ₹126 per kg and ₹135 per kg are mixed with a third variety in the ratio of 1 : 1 : 2. If the mixture is worth ₹153 per kg, then the price of the third variety per kg (in ₹) is:

Ans ❌ 1. 182.5

❌ 2. 195.5

❌ 3. 133.5

✅ 4. 175.5

Q.5 While baking a cake for 15 people, Jaya used 2.4 kg of flour. How much flour will she need to bake a similar cake for 36 people?

Ans ❌ 1. 5.60 kg

❌ 2. 6.00 kg

❌ 3. 5.88 kg

✅ 4. 5.76 kg

Q.6 A person borrowed some money on simple interest. After 4 years, he returned $\frac{9}{5}$ of the money to the lender. What was the rate of interest?

Ans ✗ 1. 25% p.a.

✗ 2. 10% p.a.

✗ 3. 15% p.a.

✓ 4. 20% p.a.

Question ID : 264330106003

Status : **Answered**

Chosen Option : **4**

Q.7 A policeman chasing a thief is 0.5 km behind the thief. The speed of thief is 80% of the speed of the policeman and policeman catches him in 12 minutes. What is the speed of the thief (in km/h)?

Ans ✓ 1. 10

✗ 2. 12.5

✗ 3. 15

✗ 4. 7.5

Question ID : 264330126145

Status : **Not Answered**

Chosen Option : **--**

Q.8 An inlet pipe can fill an empty tank in $4\frac{1}{2}$ hours while an outlet pipe drains a completely filled tank in $7\frac{1}{5}$ hours. The tank is initially empty, and the two pipes are alternately opened for an hour each, till the tank is completely filled, starting with the inlet pipe. In how many hours will the tank be completely filled?

Ans ✗ 1. 24

✗ 2. $20\frac{1}{4}$

✓ 3. $20\frac{3}{4}$

✗ 4. $22\frac{3}{8}$

Question ID : 264330112556

Status : **Not Answered**

Chosen Option : **--**

Q.9 If △ABC is right angled at B, AB = 12 cm and ∠CAB = 60°, determine the length of BC.

Ans

✗ 1. $12\sqrt{2}$ cm

✗ 2. 12

✓ 3. $12\sqrt{3}$ cm

✗ 4. $24\sqrt{3}$ cm

Q.10 The value of $(3^2)^2 + 3 \times 3 \div 3 - 3$ is:

Ans

✗ 1. 3^2

✓ 2. 9^2

✗ 3. 2^3

✗ 4. 3^0

Q.11 A works 5.4 times as fast as B, and A takes 22 days less than B to complete the job when each works alone. Calculate the number of days taken to complete the same job if A and B work together.

Ans

✗ 1. $4\frac{1}{4}$

✗ 2. $4\frac{3}{16}$

✓ 3. $4\frac{7}{32}$

✗ 4. $4\frac{5}{32}$

Q.12 Two pipes S1 and S2 alone can fill an empty tank in 15 hours and 20 hours respectively. Pipe S3 alone can empty that completely filled tank in 40 hours. Firstly both pipes S1 and S2 are opened and after 2 hour pipe S3 is also opened. In how much time tank will be completely filled after S3 is opened?

Ans ✗ 1. 90/17 hours

✗ 2. 89/12 hours

✗ 3. 90/13 hours

✓ 4. 92/11 hours

Q.13 Amit can complete a piece of work in 5 hours; Jeevan and Paul together can complete it in 4 hours, while Amit and Paul together can complete it in 3 hours. Approximately, how many hours will Jeevan alone take to complete the work (rounded off to the nearest integer)?

Ans ✗ 1. 5

✗ 2. 6

✓ 3. 9

✗ 4. 8

Q.14 What is the value of $\left(\frac{1}{a} - \frac{1}{b} - \frac{1}{c}\right)$ if, $\frac{2a-5}{a} - \frac{4b-5}{b} + \frac{6c+5}{c} = 0$?

Ans

✓ 1. $\frac{4}{5}$

✗ 2. $-\frac{8}{5}$

✗ 3. $\frac{2}{5}$

✗ 4. $-\frac{12}{5}$

Q.15 The following bar diagram shows the number of students who opted for the different subjects in the year 2020 and 2021.
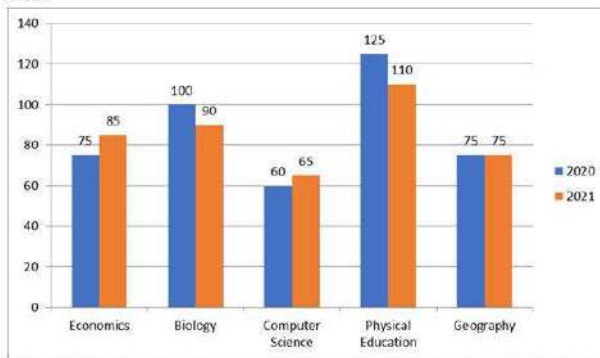
Out of all 5 subjects, what percentage (rounded up to two decimals) of students opted for Biology in 2021?

Ans

✗ 1. 23.14%

✗ 2. 22.34%

✔ 3. 21.18%

✗ 4. 24.31%

Q.16 AB = 28 cm and CD = 22 cm are two parallel chords on the same side of the centre of a circle. The distance between them is 4 cm. The radius of the circle is _____. (Consider up to two decimals)

Ans

✗ 1. 15.20 cm

✗ 2. 14.82 cm

✔ 3. 15.82 cm

✗ 4. 13.20 cm

Q.17 If $\left(x - \dfrac{1}{x}\right) = 2\sqrt{2}$, what is the value of $\left(x^6 + \dfrac{1}{x^6}\right)$?

Ans

✗ 1. 1030

✗ 2. 960

✗ 3. 1000

✔ 4. 970

Q.18 To earn a 12% profit, a shopkeeper sells a television for ₹22,400. What should be the selling price (in ₹) of the television if he wants a double profit?

Ans   ✗ 1. 24,000

     ✓ 2. 24,800

     ✗ 3. 24,600

     ✗ 4. 25,000

Q.19 The perimeter of an isosceles triangle is 100 cm. If the base is 36 cm, then find its semi perimeter (in centimetres).

Ans   ✗ 1. 64

     ✗ 2. 60

     ✗ 3. 45

     ✓ 4. 50

Q.20 Three successive discounts of 25% each on the marked price of an item are together equivalent to a single discount (correct up to 2 decimal places) of:

Ans   ✗ 1. 62.35%

     ✗ 2. 60.25%

     ✗ 3. 56.45%

     ✓ 4. 57.81%

Q.21 The sides of two similar triangles are in the ratio 5:7. The areas of these triangles are in the ratio:

Ans   ✗ 1. 35 :49

     ✗ 2. 15 :49

     ✓ 3. 25 :49

     ✗ 4. 36 :49

Q.22

Find the value of $\sqrt{\dfrac{1-\sin 3\theta}{1+\sin 3\theta}}$.

Ans ✔ 1. $\sec 3\theta - \tan 3\theta$

✘ 2. $(\sec 3\theta - \tan 3\theta)^3$

✘ 3. $(\sec 3\theta - \tan 3\theta)^2$

✘ 4. $\sec 3\theta + \tan 3\theta$

Question ID : **264330143594**
Status : **Answered**
Chosen Option : **4**

Q.23 The value of $\tan 25^0 \tan 35^0 \tan 45^0 \tan 55^0 \tan 65^0$ is:

Ans ✘ 1. 2

✔ 2. 1

✘ 3. $\sqrt{3}$

✘ 4. 0

Question ID : **26433075221**
Status : **Answered**
Chosen Option : **2**

Q.24 What is the value of $(27x^3 + 58x^2y + 31xy^2 + 8y^3)$, when $x = 5$ and $y = -7$?

Ans ✘ 1. 1924

✘ 2. –1926

✔ 3. –1924

✘ 4. 1926

Question ID : **264330101353**
Status : **Not Answered**
Chosen Option : **--**

Q.25 The value of secx - cosx= ?

Ans ✔ 1. tanx sinx

✘ 2. secx tanx

✘ 3. tanx cosx

✘ 4. secx cosx

Question ID : **26433061623**
Status : **Answered**
Chosen Option : **1**

Section : **English Comprehension**

Q.1 Select the option that can be used as a one-word substitute for the given group of words.

The place that a person treats as his permanent home, or lives in and has a substantial connection with

Ans ✗ 1. Oasis

✓ 2. Domicile

✗ 3. Embankment

✗ 4. Resort

Question ID : **26433089105**
Status : **Answered**
Chosen Option : **2**

Q.2 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.
My friend is owing an expensive cell phone.

Ans ✗ 1. own an expensive cell phone

✓ 2. owns an expensive cell phone.

✗ 3. No substitution

✗ 4. is own an expensive cell phone

Question ID : **26433093082**
Status : **Answered**
Chosen Option : **2**

Q.3 Select the option that expresses the given sentence in passive voice.
He has not committed the crime.

Ans ✗ 1. The crime was not committed by him.

✗ 2. The crime have not being committed by him.

✗ 3. The crime have not been committed by him.

✓ 4. The crime has not been committed by him.

Question ID : **264330141132**
Status : **Answered**
Chosen Option : **4**

Q.4 Select the most appropriate synonym of the underlined word.

During the summer of 1893, Miss Sullivan and I visited the World's Fair with Dr. Alexander Graham Bell. I recall with unmixed delight those days when a thousand childish fancies became beautiful realities.

Ans ✓ 1. enchant

✗ 2. dismay

✗ 3. memory

✗ 4. emotion

Question ID : **26433090769**
Status : **Answered**
Chosen Option : **1**

Q.5 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Binay said that / he is coming / from / his village, Jaygarh.

Ans ✗ 1. from

✓ 2. he is coming

✗ 3. his village, Jaygarh

✗ 4. Binay said that

Q.6 Select the most appropriate synonym of the given word.

Genial

Ans ✗ 1. Optimistic

✓ 2. Cheerful

✗ 3. Despondent

✗ 4. Positive

Q.7 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. In 1944, he was honoured by King George VI with a Knighthood and became Sir Alexander Fleming.
B. On receiving this great honour, Fleming said in his usual modest way, "Wherever I go, people thank me for saving their lives. I didn't do anything; I just found a remedy that was there."
C. Fleming became famous overnight and was regarded as one of the most distinguished scientists of his time.
D. The next year, he and his fellow bacteriologists, whose combined efforts had led to the great discovery, were honoured with a joint Nobel Prize.

Ans ✗ 1. DBCA

✗ 2. ADBC

✓ 3. CADB

✗ 4. BCDA

Q.8 Select the most appropriate synonym of the given word.

Absorbed

Ans ✗ 1. Preoccupied

✓ 2. Soaked

✗ 3. Restored

✗ 4. Replaced

Q.9 Select the INCORRECTLY spelt word.

Ans ✗ 1. Treble

✗ 2. Nozzle

✔ 3. Allmost

✗ 4. Moisture

Question ID : **26433091836**
Status : **Answered**
Chosen Option : **1**

Q.10 Identify the option that defines the homonyms 'gate' and 'gait' most appropriately.

Ans ✗ 1. Gate means to achieve or receive, and gait means a person's manner of walking.

✔ 2. Gate means a hinged barrier used to close an opening in a wall, fence or hedge, and gait means a person's manner of walking.

✗ 3. Gate means general agreement on tariff and excise, and gait means a person's manner of talking.

✗ 4. Gate means a hinged barrier used to close an opening in a wall or fence, and gait means a cloth or leather leg covering reaching from the instep to above the ankle or to the mid-calf or knee.

Question ID : **264330123033**
Status : **Answered**
Chosen Option : **4**

Q.11 Parts of the following sentence have been given as options. Select the option that contains an error.

She was waiting for a opportunity to start her own business.

Ans ✗ 1. own business

✗ 2. to start her

✔ 3. for a opportunity

✗ 4. She was waiting

Question ID : **26433072527**
Status : **Answered**
Chosen Option : **3**

Q.12 Select the most appropriate option that can substitute the underlined segment in the given sentence.
The players distributed the reward between themselves

Ans ✗ 1. between them

✔ 2. among themselves

✗ 3. between their selves

✗ 4. amongst their self

Question ID : **26433098969**
Status : **Answered**
Chosen Option : **1**

Q.13 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. It was the night before the day fixed for his coronation, and the young King was sitting alone in his beautiful chamber.
B. And, indeed, it was the hunters who had found him, coming upon him almost by chance as, bare-limbed and pipe in hand, he was following the flock of the poor goat herd who had brought him up, and whose son he had always fancied himself to be.
C. The lad—for he was only a lad, being but sixteen years of age—was not sorry at their departure, and had flung himself back with a deep sigh of relief on the soft cushions of his embroidered couch, lying there, wild-eyed and open-mouthed, like a brown woodland Faun, or some young animal of the forest newly snared by the hunters.
D. His courtiers had all taken their leave of him, bowing their heads to the ground, according to the ceremonious usage of the day, and had retired to the Great Hall of the Palace, to receive a few last lessons from the Professor of Etiquette; there being some of them who had still quite natural manners, which in a courtier is, I need hardly say, a very grave offence.

Ans ✔ 1. ADCB

✘ 2. CBDA

✘ 3. ACDB

✘ 4. CDBA

Question ID : **264330143866**
Status : **Not Answered**
Chosen Option : **--**

Q.14 Parts of the following sentence have been underlined and given as options. Select the option that contains a spelling error.

If more is <u>desired</u> than the <u>instantanious</u> impact on the mind, the <u>advertising</u> value of the poster falls sharply, within limits of outdoor publicity, however it is at present <u>unchallenged</u>.

Ans ✘ 1. unchallenged

✔ 2. instantanious

✘ 3. desired

✘ 4. advertising

Question ID : **26433088433**
Status : **Answered**
Chosen Option : **1**

Q.15 Select the option that expresses the given sentence in active voice.
Wedding invitations will be sent by them.

Ans ✘ 1. They will be sent wedding invitations.

✘ 2. He will sent wedding invitations.

✔ 3. They will send wedding invitations.

✘ 4. He will be send wedding invitations.

Question ID : **264330132784**
Status : **Answered**
Chosen Option : **3**

Q.16 Select the most appropriate ANTONYM of the underlined word.
Her room looks very <u>messy</u>

Ans
✗ 1. Untidy

✗ 2. Chaotic

✗ 3. Disordered

✓ 4. Organised

Question ID : **264330121049**
Status : **Answered**
Chosen Option : **4**

Q.17 Select the most appropriate meaning of the given idiom.

A perfect storm

Ans
✗ 1. Pretty good judgement

✗ 2. Healing from trauma

✓ 3. The worst possible situation

✗ 4. Appropriate for all occasions

Question ID : **26433088775**
Status : **Answered**
Chosen Option : **3**

Q.18 Select the sentence that has the most appropriate meaning of the given idiom.

Bad blood

Ans
✗ 1. She is so scared of cockroaches that she fainted when she saw them crawling near her foot.

✗ 2. The doctor dropped the bad news to Ravi as he was suffering from a serious disease.

✓ 3. The gangster had some bitter relations with a local activist so he warned him to stay out of his business.

✗ 4. Sushant always gets in trouble for telling lies but he never learns anything.

Question ID : **26433089735**
Status : **Answered**
Chosen Option : **2**

Q.19 Select the most appropriate synonym of the underlined word.

After my first visit to Boston, I spent almost every winter in the North. Once I went on a visit to a New England village with its frozen lakes and <u>vast</u> snow fields.

Ans
✗ 1. minimal

✗ 2. shallow

✓ 3. extensive

✗ 4. solid

Question ID : **26433090770**
Status : **Answered**
Chosen Option : **3**

Q.20 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Hardly <u>we had boarded</u> the train when it started to move.

Ans ✗ 1. will we boarded

✗ 2. we are boarded

✗ 3. is we boarded

✓ 4. had we boarded

Question ID : **26433081309**

Status : **Answered**

Chosen Option : **4**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The basic elements of computers that (1)_____ our world are explained in an interactive manner. The book has a (2)_____ approach of colourful and creative picture-based activities. The puzzles, activities and mazes (3)_____ the students to develop critical thinking, logical and motor skills. After every lesson, (4)_____ exercises are incorporated to (5)_____ the conceptual understanding of the students.

SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank no. 1.

Ans ✓ 1. empower

✗ 2. negate

✗ 3. empowers

✗ 4. negates

Question ID : **264330135876**

Status : **Answered**

Chosen Option : **4**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The basic elements of computers that (1)_____ our world are explained in an interactive manner. The book has a (2)_____ approach of colourful and creative picture-based activities. The puzzles, activities and mazes (3)_____ the students to develop critical thinking, logical and motor skills. After every lesson, (4)_____ exercises are incorporated to (5)_____ the conceptual understanding of the students.

SubQuestion No : 22

Q.22 Select the most appropriate option to fill in blank no. 2.

Ans ✗ 1. difficult

✗ 2. complex

✗ 3. trivial

✓ 4. unique

Question ID : **264330135877**

Status : **Answered**

Chosen Option : **4**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The basic elements of computers that (1)_____ our world are explained in an interactive manner. The book has a (2)_____ approach of colourful and creative picture-based activities. The puzzles, activities and mazes (3)_____ the students to develop critical thinking, logical and motor skills. After every lesson, (4)_____ exercises are incorporated to (5)_____ the conceptual understanding of the students.

SubQuestion No : 23

Q.23 Select the most appropriate option to fill in blank no. 3.

Ans ✓ 1. help

✗ 2. helped

✗ 3. helps

✗ 4. had helped

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The basic elements of computers that (1)_____ our world are explained in an interactive manner. The book has a (2)_____ approach of colourful and creative picture-based activities. The puzzles, activities and mazes (3)_____ the students to develop critical thinking, logical and motor skills. After every lesson, (4)_____ exercises are incorporated to (5)_____ the conceptual understanding of the students.

SubQuestion No : 24

Q.24 Select the most appropriate option to fill in blank no. 4.

Ans ✓ 1. brainstorming

✗ 2. superficial

✗ 3. baffling

✗ 4. irrational

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The basic elements of computers that (1)_____ our world are explained in an interactive manner. The book has a (2)_____ approach of colourful and creative picture-based activities. The puzzles, activities and mazes (3)_____ the students to develop critical thinking, logical and motor skills. After every lesson, (4)_____ exercises are incorporated to (5)_____ the conceptual understanding of the students.

SubQuestion No : 25

Q.25 Select the most appropriate option to fill in blank no. 5.

Ans ✗ 1. evolving

✗ 2. evolved

✗ 3. evolution

✓ 4. evolve