SSC Selection Post Previous Year Papers 9 Nov 2020 shift 1 HSC

Q.1 In a code language, MATERIAL is written as NDYLTMGT. How will PURCHASE be written in that language?

Ans
✘ 1. QWUGJDWJ

✔ 2. QXWJJEYM

✘ 3. QWUGICVI

✘ 4. QXWJIDXL

Question ID : 8161614822

Q.2 Select the option figure in which the given figure is embedded (rotation is NOT allowed).

Ans

✘ 1.

✔ 2.

✘ 3.

✘ 4.

Question ID : 8161614837

Q.3 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.

SUN : QUSWLP : : JAM : ?

Ans ✔ 1. HLYCKO

✘ 2. LHCYOK

✘ 3. HLCYKO

✘ 4. HLYCOK

Question ID : 8161614814

Q.4 Select the option that is related to the third number in the same way as the second number is related to the first number.

3978 : 72 : : 5172 : ?

Ans ✘ 1. 98

✔ 2. 51

✘ 3. 27

✘ 4. 66

Question ID : 8161614833

Q.5 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 books are novels.
No novel is a diary.

Conclusions:
I. No book is a diary.
II. All diaries are books.
III. No diary is a novel.

Ans ✘ 1. Either conclusion I or II follows

✘ 2. Only conclusion II follows

✘ 3. Only conclusion I follows

✔ 4. Only conclusion III follows

Question ID : 8161614831

Q.6 In a code language, if SAILOR is written as 21414192631, then how will MARBLE be written in the same language?

Ans ✘ 1. 1542392322

✔ 2. 1542392318

✘ 3. 1542382522

✘ 4. 1542392116

Question ID : 8161614825

Q.7 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 and definitely follow(s) from the statements.

Statements:
All donkeys are horses.
No cow is a horse.

Conclusions:
I. Some cows are donkeys.
II. Some horses are donkeys.
III. No donkey is a cow.

Ans ✔ 1. Both conclusions II and III follow

✘ 2. Only conclusion II follows

✘ 3. Only conclusion III follows

✘ 4. Either conclusion II or III follows

Question ID : **8161614830**

Q.8 In a code language, STAPLE is written as TSBOMD. How will ERASER be written in that language?

Ans ✔ 1. FQBRFQ

✘ 2. FQBPFQ

✘ 3. FQBRDQ

✘ 4. FOBRFO

Question ID : **8161614820**

Q.9 Select the correct mirror image of the given figure when a vertical mirror is placed to the right of the figure.

Ans

✘ 1.

✘ 2.

✘ 3.

✔ 4.

Question ID : **8161614838**

Q.10 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.

JOKER : IKIUJLAIQS : : CLOWN : ?

Ans
✗ 1. BDKMNPVXMO

✗ 2. BDKNIUVXMO

✗ 3. BDKMIUXYMO

✔ 4. BDKMIUVXMO

Question ID : 8161614815

Q.11 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.
1. Trapezium
2. Hexagon
3. Triangle
4. Heptagon
5. Pentagon

Ans
✔ 1. 3-1-5-2-4

✗ 2. 3-5-4-2-1

✗ 3. 3-1-5-4-2

✗ 4. 3-1-2-4-5

Question ID : 8161614816

Q.12 In a code language, if RAIN is written as 149118, then how will SHIP be written in the same language?

Ans
✗ 1. 198916

✗ 2. 168919

✗ 3. 169198

✔ 4. 169819

Question ID : 8161614823

Q.13 Which letter will replace the question mark (?) in the following series?

D, E, G, J, ?, S, Y

Ans
✔ 1. N

✗ 2. O

✗ 3. L

✗ 4. M

Question ID : 8161614826

Q.14 Peter is the brother of Mary, who is the sister of John. If Jessica is married to Donald's only son, who is the father of John, then how is Jessica related to the father of Mary?

Ans
✗ 1. Mother

✗ 2. Daughter

✔ 3. Wife

✗ 4. Daughter-in-law

Question ID : 8161614828

Q.15 Which two signs should be interchanged to make the given equation correct?

$51 + 18 - 5 \times 12 \div 3 = 137$

Ans ✗ 1. − and ÷

✗ 2. + and ×

✔ 3. × and −

✗ 4. ÷ and ×

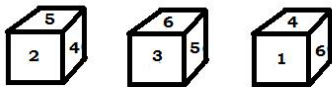Question ID : 8161614834

Q.16 Which letter will replace the question mark (?) in the following series?

W, V, S, N, ?, X, M

Ans ✗ 1. I

✗ 2. H

✗ 3. F

✔ 4. G

Question ID : 8161614827

Q.17 Three different positions of the same non-standard dice are shown. Which number will be on the face opposite to the face with number 2?

Ans ✗ 1. 3

✗ 2. 4

✗ 3. 1

✔ 4. 6

Question ID : 8161614836

Q.18 In a code language, TEACHER is written as UIEDIIS. How will PLUMBER be written in that language?

Ans ✗ 1. QMVNCFS

✔ 2. QMANCIS

✗ 3. QMVNCIS

✗ 4. QMANCFS

Question ID : 8161614821

Q.19 'Theatre' is related to 'Actor' in the same way as 'Circus' is related to '_____'.

Ans ✗ 1. Referee

✔ 2. Clown

✗ 3. Monitor

✗ 4. King

Question ID : 8161614819

Q.20 Samar is the son of Ganga, who is the daughter-in-law of Dinesh. If Jamna is the mother of Shyam, who is the only son of Dinesh, then how is Samar related to Jamna?

Ans ✔ 1. Grandson

✘ 2. Nephew

✘ 3. Son-in-law

✘ 4. Son

Q.21 Which figure will replace the question mark (?) in the following series?

Ans

✘ 1.

✘ 2.

✘ 3.

✔ 4.

Q.22 'Library' is related to 'Books' in the same way as 'Aquarium' is related to '_____'.

Ans ✘ 1. Artefacts

✔ 2. Fishes

✘ 3. Decoration

✘ 4. Birds

Q.23 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.
1. Tercet
2. Sestet
3. Octave
4. Couplet
5. Quintet

Ans ✘ 1. 3-4-1-2-5

✘ 2. 3-4-1-5-2

✔ 3. 4-1-5-2-3

✘ 4. 4-1-5-3-2

Q.24 Which number will replace the question mark (?) in the following series?

31, 50, 67, ?, 91, 98, 103, 106, 108

Ans ✗ 1. 76

✗ 2. 82

✔ 3. 80

✗ 4. 78

Q.25 In a code language, if SOIL is written as 91519021, then how will ROCK be written in the same language?

Ans ✗ 1. 81511301

✗ 2. 81513311

✔ 3. 81513011

✗ 4. 81510311

Q.1 Select the most appropriate antonym of the given word.

WORSEN

Ans ✗ 1. disappear

✗ 2. leave

✗ 3. command

✔ 4. improve

Q.2 Select the most appropriate meaning of the following idiom.

Be in the eye of a storm

Ans ✗ 1. Be caught in heavy rain

✗ 2. Be very worried due to something

✗ 3. Be in conflict with many people

✔ 4. Be in the middle of a difficult situation

Q.3 Select the correct passive form of the given sentence.

I have completed the project.

Ans ✗ 1. The project was completed by me.

✗ 2. The project is being completed by me.

✗ 3. The project is completed by me.

✔ 4. The project has been completed by me.

Q.4 Select the most appropriate option to fill in the blank in the given sentence.

The girl _____ stood first in the class is a close friend.

Ans ✔ 1. who

✘ 2. whom

✘ 3. whose

✘ 4. which

Question ID : **8161614845**

Q.5 Select the most appropriate one-word substitution for the given words.

A quiet person who prefers to spend time alone

Ans ✘ 1. Narcissist

✔ 2. Introvert

✘ 3. Braggart

✘ 4. Extrovert

Question ID : **8161614852**

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

ROUGH

Ans ✔ 1. coarse

✘ 2. feathery

✘ 3. soft

✘ 4. foul

Question ID : **8161614847**

Q.7 Identify the word that is misspelt.

Ans ✘ 1. Irrelevant

✔ 2. Inosense

✘ 3. Immediate

✘ 4. Special

Question ID : **8161614853**

Q.8 Select the most appropriate meaning of the following idiom.

Make both ends meet

Ans ✔ 1. Manage expenses with just enough funds

✘ 2. Be able to travel to two places

✘ 3. Manage to reach two solutions

✘ 4. Make two people patch up

Question ID : **8161614849**

Q.9 Select the correct passive form of the given sentence.

The volunteers ensured that no one was hurt.

Ans ✗ 1. It was being ensured by the volunteers that no one was hurt.

✗ 2. It was to be ensured by the volunteers that no one was hurt.

✗ 3. It had been ensured by the volunteers that no one was hurt.

✓ 4. It was ensured by the volunteers that no one was hurt.

Question ID : **8161614841**

Q.10 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'no substitution'.

I needs someone very strong to lift this heavy bag.

Ans ✗ 1. am in need

✓ 2. need

✗ 3. am need

✗ 4. no substitution

Question ID : **8161614844**

Q.11 Select the most appropriate one-word substitution for the given words.

A speech made without preparation

Ans ✗ 1. Statement

✗ 2. Debate

✓ 3. Extempore

✗ 4. Speech

Question ID : **8161614851**

Q.12 Select the correct indirect form of the given sentence.

The manager said to the staff, "Please work with dedication. You will be paid overtime whenever you work late."

Ans ✗ 1. The manager said to the staff they will please work with dedication and will be paid overtime whenever they work late.

✗ 2. The manager requests the staff to work with dedication and ensures them that they would be paid overtime whenever they work late.

✓ 3. The manager requested the staff to work with dedication and ensured them that they would be paid overtime whenever they worked late.

✗ 4. The manager begged the staff to work with dedication. He said you will be paid overtime whenever you work late.

Question ID : **8161614843**

Q.13 Given below are four sentences which are jumbled. Pick the option that gives the correct order.

A. Notify your card issuer that your card is missing and that it should be blocked.
B. Lastly, don't forget to check your account for any unauthorised withdrawals.
C. A lost or stolen debit card can cause a lot of anxiety.
D. So, the first thing you need to do is to contact your bank.

Ans ✖ 1. ACBD

✖ 2. CABD

✖ 3. ADCB

✔ 4. CDAB

Question ID : **8161614846**

Q.14 Select the correct indirect form of the given sentence.

The children said, "We are bored of sitting at home."

Ans ✖ 1. The children say that they are bored of sitting at home.

✖ 2. The children are saying that they are bored of sitting at home.

✖ 3. The children said they were getting bored of sitting at home.

✔ 4. The children said that they were bored of sitting at home.

Question ID : **8161614842**

Q.15 Identify the segment in the sentence which contains the grammatical error.

Nobody is allowed to entered the colony during the lockdown.

Ans ✖ 1. during the lockdown

✖ 2. is allowed

✔ 3. to entered

✖ 4. Nobody

Question ID : **8161614839**

Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The next period they had was History. The boys looked forward to it (1)_____. It was taught by Mr. Pillai who (2)_____ a name in the school for his kindness and (3)_____ humour. He was reputed to have never frowned at the boys at (4)_____ time. The music period was (5)_____ last in the morning. It was not such a dull hour after all.

SubQuestion No : 16

Q.16 Select the most appropriate word to fill in blank no. 1.

Ans ✔ 1. eagerly

✖ 2. evenly

✖ 3. promptly

✖ 4. heavily

Question ID : **8161614855**

Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The next period they had was History. The boys looked forward to it (1)_____. It was taught by Mr. Pillai who (2)_____ a name in the school for his kindness and (3)_____ humour. He was reputed to have never frowned at the boys at (4)_____ time. The music period was (5)_____ last in the morning. It was not such a dull hour after all.

SubQuestion No : 17

Q.17 Select the most appropriate word to fill in blank no. 2.

Ans ❌ 1. can earn

✔️ 2. had earned

❌ 3. has earned

❌ 4. was earned

Question ID : **8161614856**

Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The next period they had was History. The boys looked forward to it (1)_____. It was taught by Mr. Pillai who (2)_____ a name in the school for his kindness and (3)_____ humour. He was reputed to have never frowned at the boys at (4)_____ time. The music period was (5)_____ last in the morning. It was not such a dull hour after all.

SubQuestion No : 18

Q.18 Select the most appropriate word to fill in blank no. 3.

Ans ❌ 1. smiling

✔️ 2. good

❌ 3. best

❌ 4. better

Question ID : **8161614857**

Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The next period they had was History. The boys looked forward to it (1)_____. It was taught by Mr. Pillai who (2)_____ a name in the school for his kindness and (3)_____ humour. He was reputed to have never frowned at the boys at (4)_____ time. The music period was (5)_____ last in the morning. It was not such a dull hour after all.

SubQuestion No : 19

Q.19 Select the most appropriate word to fill in blank no. 4.

Ans ❌ 1. that

❌ 2. some

✔️ 3. any

❌ 4. this

Question ID : **8161614858**

Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The next period they had was History. The boys looked forward to it (1)_____. It was taught by Mr. Pillai who (2)_____ a name in the school for his kindness and (3)_____humour. He was reputed to have never frowned at the boys at (4)_____ time. The music period was (5)_____ last in the morning. It was not such a dull hour after all.

SubQuestion No : 20

Q.20 Select the most appropriate word to fill in blank no. 5.

Ans ✘ 1. to

✘ 2. for

✔ 3. the

✘ 4. a

Comprehension:

Read the given passage and answer the questions that follow.

The room in which the boys were fed, was a large stone hall, with a copper vessel at one end, out of which the master ladled the gruel at mealtimes. Of this festive composition each boy had one bowl, and no more — except on occasions of great public rejoicing, when he had two ounces and a quarter of bread besides.
The bowls never wanted washing. The boys polished them with their spoons till they shone again; and when they had performed this operation, they would sit staring at the copper vessel with eager eyes employing themselves, meanwhile, in sucking their fingers.
Oliver Twist and his companions suffered the tortures of slow starvation for three months; at last they got so voracious and wild with hunger, that one boy, who was tall for his age, hinted darkly to his companions, that unless he had another basin of gruel, he was afraid he might some night happen to eat the boy who slept next to him. He had a wild, hungry eye; and they implicitly believed him. A council was held; lots were cast about who should walk up to the master after supper that evening, and ask for more; and it fell to Oliver Twist.
The evening arrived; the boys took their places.
The gruel was served. The boys whispered to each other, and winked at Oliver; while his next neighbors nudged him.
Oliver rose from the table; and advancing to the master, basin and spoon in hand, said, "Please, sir, I want some more."
The master aimed a blow at Oliver's head and shrieked aloud.

SubQuestion No : 21

Q.21 The passage throws light on:

Ans ✘ 1. how Oliver and other boys were well cared for in school

✘ 2. the kindness of people who looked after the boys

✘ 3. playful and mischievous behaviour of the boys

✔ 4. the starvation faced by boys living in a home for the poor

(13)

Comprehension:

Read the given passage and answer the questions that follow.

The room in which the boys were fed, was a large stone hall, with a copper vessel at one end, out of which the master ladled the gruel at mealtimes. Of this festive composition each boy had one bowl, and no more — except on occasions of great public rejoicing, when he had two ounces and a quarter of bread besides.

The bowls never wanted washing. The boys polished them with their spoons till they shone again; and when they had performed this operation, they would sit staring at the copper vessel with eager eyes employing themselves, meanwhile, in sucking their fingers. Oliver Twist and his companions suffered the tortures of slow starvation for three months; at last they got so voracious and wild with hunger, that one boy, who was tall for his age, hinted darkly to his companions, that unless he had another basin of gruel, he was afraid he might some night happen to eat the boy who slept next to him. He had a wild, hungry eye; and they implicitly believed him. A council was held; lots were cast about who should walk up to the master after supper that evening, and ask for more; and it fell to Oliver Twist.

The evening arrived; the boys took their places.

The gruel was served. The boys whispered to each other, and winked at Oliver; while his next neighbors nudged him.

Oliver rose from the table; and advancing to the master, basin and spoon in hand, said, "Please, sir, I want some more."

The master aimed a blow at Oliver's head and shrieked aloud.

SubQuestion No : 22

Q.22 Which of the following is NOT an indication of the boys being poorly fed?

Ans ✔ 1. The boys whispered to each other

✘ 2. The boys starved for three months

✘ 3. One tall boy said he might eat someone

✘ 4. They would sit staring at the copper, with eager eyes

Question ID : 8161614862

Comprehension:

Read the given passage and answer the questions that follow.

The room in which the boys were fed, was a large stone hall, with a copper vessel at one end, out of which the master ladled the gruel at mealtimes. Of this festive composition each boy had one bowl, and no more — except on occasions of great public rejoicing, when he had two ounces and a quarter of bread besides.

The bowls never wanted washing. The boys polished them with their spoons till they shone again; and when they had performed this operation, they would sit staring at the copper vessel with eager eyes employing themselves, meanwhile, in sucking their fingers. Oliver Twist and his companions suffered the tortures of slow starvation for three months; at last they got so voracious and wild with hunger, that one boy, who was tall for his age, hinted darkly to his companions, that unless he had another basin of gruel, he was afraid he might some night happen to eat the boy who slept next to him. He had a wild, hungry eye; and they implicitly believed him. A council was held; lots were cast about who should walk up to the master after supper that evening, and ask for more; and it fell to Oliver Twist.

The evening arrived; the boys took their places.

The gruel was served. The boys whispered to each other, and winked at Oliver; while his next neighbors nudged him.

Oliver rose from the table; and advancing to the master, basin and spoon in hand, said, "Please, sir, I want some more."

The master aimed a blow at Oliver's head and shrieked aloud.

SubQuestion No : 23

Q.23 The writer says that 'the bowls never wanted washing' because:

Ans ✘ 1. there was a lot of gruel still left in them

✘ 2. the boys cleaned them nicely with their hands

✘ 3. they were left to be cleaned by the assistants

✔ 4. the boys ate up every little bit in the bowls

Question ID : 8161614861

Comprehension:

Read the given passage and answer the questions that follow.

The room in which the boys were fed, was a large stone hall, with a copper vessel at one end, out of which the master ladled the gruel at mealtimes. Of this festive composition each boy had one bowl, and no more — except on occasions of great public rejoicing, when he had two ounces and a quarter of bread besides.
The bowls never wanted washing. The boys polished them with their spoons till they shone again; and when they had performed this operation, they would sit staring at the copper vessel with eager eyes employing themselves, meanwhile, in sucking their fingers.
Oliver Twist and his companions suffered the tortures of slow starvation for three months; at last they got so voracious and wild with hunger, that one boy, who was tall for his age, hinted darkly to his companions, that unless he had another basin of gruel, he was afraid he might some night happen to eat the boy who slept next to him. He had a wild, hungry eye; and they implicitly believed him. A council was held; lots were cast about who should walk up to the master after supper that evening, and ask for more; and it fell to Oliver Twist.
The evening arrived; the boys took their places.
The gruel was served. The boys whispered to each other, and winked at Oliver; while his next neighbors nudged him.
Oliver rose from the table; and advancing to the master, basin and spoon in hand, said, "Please, sir, I want some more."
The master aimed a blow at Oliver's head and shrieked aloud.

SubQuestion No : 24

Q.24 When Oliver Twist asked for more gruel:

Ans ✔ 1. the master screamed loudly

✘ 2. the other boys supported him

✘ 3. the other boys laughed at him

✘ 4. the master threw the gruel at him

Question ID : 8161614864

Comprehension:

Read the given passage and answer the questions that follow.

The room in which the boys were fed, was a large stone hall, with a copper vessel at one end, out of which the master ladled the gruel at mealtimes. Of this festive composition each boy had one bowl, and no more — except on occasions of great public rejoicing, when he had two ounces and a quarter of bread besides.
The bowls never wanted washing. The boys polished them with their spoons till they shone again; and when they had performed this operation, they would sit staring at the copper vessel with eager eyes employing themselves, meanwhile, in sucking their fingers.
Oliver Twist and his companions suffered the tortures of slow starvation for three months; at last they got so voracious and wild with hunger, that one boy, who was tall for his age, hinted darkly to his companions, that unless he had another basin of gruel, he was afraid he might some night happen to eat the boy who slept next to him. He had a wild, hungry eye; and they implicitly believed him. A council was held; lots were cast about who should walk up to the master after supper that evening, and ask for more; and it fell to Oliver Twist.
The evening arrived; the boys took their places.
The gruel was served. The boys whispered to each other, and winked at Oliver; while his next neighbors nudged him.
Oliver rose from the table; and advancing to the master, basin and spoon in hand, said, "Please, sir, I want some more."
The master aimed a blow at Oliver's head and shrieked aloud.

SubQuestion No : 25

Q.25 The boys held a meeting in order to decide:

Ans ✔ 1. who would tell the master they wanted more food

✘ 2. who would steal the food from the kitchen

✘ 3. who would beat the tall boy for his wildness

✘ 4. who would help the master in the hall

Question ID : 8161614863

Q.1 When 200 is divided by a positive integer x, the remainder is 12. How many values of x are possible?

Ans
✔ 1. 3
✘ 2. 8
✘ 3. 6
✘ 4. 2

Q.2 Five years ago, the average of the ages of 4 persons was 40 years. If a new person joins the group now, then the average of the ages all five persons is 46 years. The age of the fifth person (in years) is:

Ans
✔ 1. 50
✘ 2. 55
✘ 3. 48
✘ 4. 47

Q.3 If $2cos^2\theta = 3sin\theta, 0° < \theta < 90°$, then the value of $\left(\frac{1}{2}cosec^2\theta - cot^2\theta\right)$ is:

Ans
✘ 1. $\frac{1}{4}$

✘ 2. $\frac{1}{2}$

✘ 3. 0

✔ 4. -1

Q.4 The area of a field in the shape of a hexagon is $3750\sqrt{3}m^2$. What will be the cost (in ₹) of putting fence around it at ₹29 per metre?

Ans
✘ 1. 10,150
✘ 2. 7,250
✘ 3. 9,425
✔ 4. 8,700

Q.5 A shopkeeper announced a 30% discount on the marked price of an item. A person bought the item from the shop for ₹21,000 after getting the discount, and sold the item to a customer in such a way that he earned a profit of 32% on the marked price. What is the profit (in ₹) the person earned by selling the item?

Ans
✘ 1. 9,600
✘ 2. 21,600
✔ 3. 18,600
✘ 4. 10,000

Q.6 A sum of ₹4,360 was to be divided among A, B, C and D in the ratio of 3 : 4 : 5 : 8, but it was divided in the ratio $\frac{1}{3} : \frac{1}{4} : \frac{1}{5} : \frac{1}{8}$ by mistake. Which of the following statements will hold true as a result?

Ans
✗ 1. B received ₹318 less

✗ 2. D received ₹1,144 more

✗ 3. A received ₹956

✔ 4. C received ₹130 less

Question ID : 8161614876

Q.7 A man travels the first part of his journey at 80 km/h and the second part at 120 km/h, and covers a total distance of 3840 km to his destination in 40 hours. How long did the first part of his journey last?

Ans
✔ 1. 24 hours

✗ 2. 12 hours

✗ 3. 18 hours

✗ 4. 36 hours

Question ID : 8161614881

Q.8 ΔABC ~ ΔQRP. If the ratio of the area of ΔABC to the area of ΔPQR is 576 : 169, AB = 10 cm, AC = 12 cm and BC = 13 cm, then the length of PR (in cm) is equal to:

Ans
✗ 1. $\frac{169}{11}$

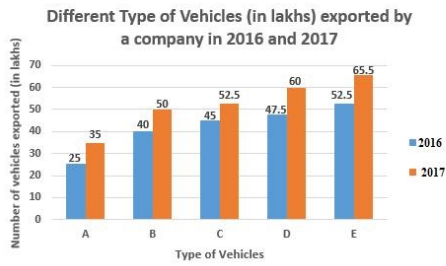✗ 2. $\frac{169}{10}$

✗ 3. $\frac{169}{12}$

✔ 4. $\frac{169}{24}$

Question ID : 8161614886

Q.9 If $(2x + 3y + 4)(2x + 3y - 5)$ is equal to $(ax^2 + by^2 + 2hxy + 2gx + 2fy + c)$, then what is the value of $\{3(g - f - c)/ab\}$?

Ans
✔ 1. $\frac{41}{24}$

✗ 2. 1

✗ 3. $\frac{31}{24}$

✗ 4. $\frac{25}{24}$

Question ID : 8161614884

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(17)

Q.10 Study the given graph and answer the question that follows:

Different Type of Vehicles (in lakhs) exported by a company in 2016 and 2017
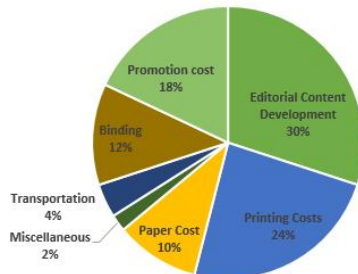

The total number of vehicles of types C and D exported by the company in 2017 is by what percentage more than the total number of vehicles of types A, B and C exported in 2016 (correct to one decimal place)?

Ans ✗ 1. 2.1%

✔ 2. 2.3%

✗ 3. 1.9%

✗ 4. 3.5%

Question ID : 8161614889

Q.11 The following pie chart represents the expenditure incurred in printing a magazine:

If the editorial content development cost of the magazine is ₹48,000, then the cost (in ₹) of binding is:

Ans ✔ 1. 19,200

✗ 2. 38,400

✗ 3. 18,000

✗ 4. 36,000

Question ID : 8161614888

Q.12 In ΔABC, D is a point on BC such that $\angle BAD = \frac{1}{2} \angle ADC, \angle BAC = 84°$ and $\angle C = 42°$. What is the measure of $\angle ADB$?

Ans ✗ 1. 102°

✗ 2. 68°

✗ 3. 94°

✔ 4. 72°

Question ID : 8161614885

Q.13 A spends 80% of her income. When her income is increased by 30%, she increases her expenditure by 30%. By what percentage are her savings increased or decreased?

Ans ✗ 1. Decrease of 30%

✗ 2. Increase of 50%

✗ 3. Decrease of 50%

✔ 4. Increase of 30%

Question ID : 8161614872

(18)

Q.14 A train covers a certain distance in 45 minutes. If its speed is reduced by 5 km/h, it takes 5 minutes more to cover the same distance. The distance (in km) is:

Ans
✔ 1. 37.5
✘ 2. 35
✘ 3. 32.5
✘ 4. 40

Q.15 The average of the weights of boys in a class is 69.3 kg and that of girls in the same class is 59.4 kg. If the average of the weights of all the boys and girls in the class is 63.8 kg, then the percentage of the number of girls in the class is:

Ans
✘ 1. $44\frac{5}{9}$ %

✘ 2. $45\frac{5}{9}$ %

✔ 3. $55\frac{5}{9}$ %

✘ 4. $54\frac{5}{9}$ %

Q.16 Three merchants, A, B and C, sell sewing machines at the same list price. Merchant A allows two successive discounts of 30% and 16%; merchant B allows two successive discounts of 20% and 26%, and merchant C allows two successive discounts of 25% and 20%. Which merchant should a customer choose to get the maximum discount?

Ans
✘ 1. Merchant B
✔ 2. Merchant A
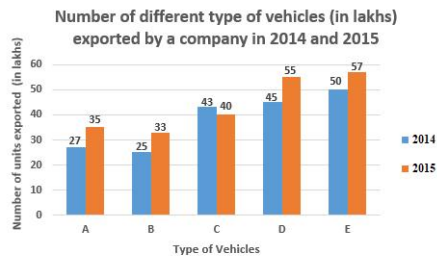✘ 3. Merchant C
✘ 4. Either merchant B or merchant C

Q.17 A vendor marked the price of an item 25% above the cost. If he offers a discount of 15% on the marked price, then what is his gain/loss percentage?

Ans
✔ 1. Gain: 6.25%
✘ 2. No gain no loss
✘ 3. Gain: 5%
✘ 4. Loss: 5%

Q.18 Study the given graph and answer the question that follows.

Number of different type of vehicles (in lakhs) exported by a company in 2014 and 2015

The total number of vehicles of types B, C and E exported in 2014 is what percentage of the total number of vehicles of types A, B, C, D and E exported in 2015 (correct to one decimal place)?

Ans
✗ 1. 62.4%

✗ 2. 63.8%

✗ 3. 61.6%

✔ 4. 53.6%

Question ID : **8161614890**

Q.19 If $x + y = 7$ and $xy = 12$, then the value of $\left(\dfrac{1}{x^3} + \dfrac{1}{y^3}\right)$ is:

Ans
✗ 1. $\dfrac{191}{1728}$

✗ 2. 1

✗ 3. $\dfrac{97}{1728}$

✔ 4. $\dfrac{91}{1728}$

Question ID : **8161614883**

Q.20 The compound interest (in ₹) on a sum of ₹12,000 at 10% per annum for 1.5 years, interest compounded half-yearly, is:

Ans
✗ 1. 1,750

✗ 2. 1,900

✗ 3. 1,821.50

✔ 4. 1,891.50

Question ID : **8161614877**

Q.21 A can finish a task in 45 days and B can finish the same task in 30 days. They work together for 3 days and then A leaves. In how many days will B finish the remaining task?

Ans
✗ 1. 5

✗ 2. 18

✔ 3. 25

✗ 4. 20

Question ID : **8161614878**

Q.22 A mixture contains acid and water in the ratio of $6:1$. On adding 12 litres of water to the mixture, the ratio of acid to water becomes $3:2$. The quantity of water (in litres) in the original mixture was:

Ans
✗ 1. 3.5
✗ 2. 6
✔ 3. 4
✗ 4. 5

Q.23 The length of a rectangle is increased by 10% and the breadth is increased by 25%. What is the percentage change in its area?

Ans
✔ 1. Increase of 37.5%
✗ 2. Decrease of 25%
✗ 3. Decrease of 37.5%
✗ 4. Increase of 25%

Q.24 Working for 9 hours a day, X can finish a task in 3 days, Y can finish three times of the same task in 8 days, and Z can finish five times of the same task in 12 days. Working together, in how many hours will they complete the task?

Ans
✗ 1. 12
✔ 2. 8
✗ 3. 10
✗ 4. 9

Q.25 When a certain number is divided by 52, the remainder is 49. When the same number is divided by 13, the remainder is x. What is the value of $\sqrt{5x-1}$?

Ans
✗ 1. 11
✗ 2. 6
✔ 3. 7
✗ 4. 8

Q.1 In the beginning of every year, the first session of the Parliament of India starts with a joint sitting of both the houses. Who among the following addresses it to inform about the causes of its summons?

Ans
✔ 1. President
✗ 2. Speaker
✗ 3. Vice President
✗ 4. Prime Minister

Q.2 In Nagaland, a 'Veer Smriti' memorial has been set up, which is dedicated to the 357 Army and Assam Rifles personnel killed while fighting insurgency. This memorial is situated in:

Ans
✖ 1. Dimapur

✖ 2. Wokha

✔ 3. Mokokchung

✖ 4. Kohima

Q.3 Who among the following is the editor and translator of the book titled 'The Diary of Manu Gandhi (1943-44)'?

Ans
✖ 1. Ramchandra Guha

✖ 2. Basudev Chatterjee

✔ 3. Tridip Suhrud

✖ 4. Pratap Bhanu Mehta

Q.4 In which of the following states is the Umiam Lake, popularly known as the Barapani Lake, located?

Ans
✖ 1. Nagaland

✔ 2. Meghalaya

✖ 3. Sikkim

✖ 4. Arunachal Pradesh

Q.5 In January 2020, which of the following companies appointed Arvind Krishna as its Chief Executive Officer (CEO)?

Ans
✖ 1. General Motors

✖ 2. Apple

✔ 3. IBM

✖ 4. PhonePe

Q.6 As per the Economic Survey 2019-20, India aspires to be a 5 trillion dollar economy by which year?

Ans
✖ 1. 2026

✖ 2. 2030

✖ 3. 2023

✔ 4. 2025

Q.7 As per the Union Budget 2020, by when does India aim to achieve the eradication of tuberculosis?

Ans   ✔ 1. 2025

     ✘ 2. 2024

     ✘ 3. 2026

     ✘ 4. 2023

<div align="right">Question ID : 8161614894</div>

Q.8 Who among the following Indians set up the 'Phoenix Institute' in an African country?

Ans   ✘ 1. Lala Lajpat Rai

     ✔ 2. Mahatma Gandhi

     ✘ 3. Devendranath Tagore

     ✘ 4. Dadabhai Noroji

<div align="right">Question ID : 8161614908</div>

Q.9 Which of the following fibres is an example of a semi-synthetic polymer?

Ans   ✔ 1. Rayon

     ✘ 2. Nylon

     ✘ 3. Polyester

     ✘ 4. Carbon fibre

<div align="right">Question ID : 8161614898</div>

Q.10 Which of the following is the hottest planet of our solar system?

Ans   ✘ 1. Mercury

     ✘ 2. Mars

     ✔ 3. Venus

     ✘ 4. Jupiter

<div align="right">Question ID : 8161614897</div>

Q.11 To which of the following countries does tennis star Kristina Mladenovic belong?

Ans   ✘ 1. USA

     ✔ 2. France

     ✘ 3. Japan

     ✘ 4. Germany

<div align="right">Question ID : 8161614915</div>

Q.12 King Kharavela, the ancient Indian king whose biography is found in the famous Hathigumpha inscription, ruled from:

Ans   ✔ 1. Kalinga

     ✘ 2. Andhra

     ✘ 3. Gauda

     ✘ 4. Kuntala

<div align="right">Question ID : 8161614907</div>

Q.13 In the context of Mughal administration, the term 'polaj' stood for a:

Ans ✔️ 1. type of land for revenue assessment

❌ 2. type of weapon

❌ 3. land granted to religious personalities

❌ 4. soldier

Q.14 In which of the following Indian states are the Mishmi Hills mainly spread?

Ans ❌ 1. Uttarakhand

✔️ 2. Arunachal Pradesh

❌ 3. Meghalaya

❌ 4. Sikkim

Q.15 In January 2020, who among the following was conferred the Ayurveda Ratan Award at the European Parliament?

Ans ✔️ 1. Pratap Chauhan

❌ 2. Pankaj Naram

❌ 3. Baba Ramdev

❌ 4. Acharya Balkrishan

Q.16 The famous 'chauri'-bearer statue found at Didarganj, Bihar, is classified as belonging to the _____ period.

Ans ✔️ 1. Mauryan

❌ 2. Gupta

❌ 3. Mughal

❌ 4. Rashtrakuta

Q.17 In which of the following states is the Azhikkal seaport situated?

Ans ❌ 1. Maharashtra

✔️ 2. Kerala

❌ 3. Andhra Pradesh

❌ 4. Odisha

Q.18 Which of the following rivers is NOT a tributary of Yamuna river?

Ans ❌ 1. Betwa

❌ 2. Hindan

❌ 3. Chambal

✔️ 4. Son

Q.19 Noted artist Jaswant Singh Kanwal, who passed away in February 2020, was a famous:

Ans ✗ 1. singer

✗ 2. dancer

✔ 3. writer

✗ 4. musician

Question ID : **8161614891**

Q.20 In January 2020, the Indian Navy launched 'Operation Vanilla' to provide assistance to the cyclone-affected population of:

Ans ✔ 1. Madagascar

✗ 2. Maldives

✗ 3. Fiji

✗ 4. Indonesia

Question ID : **8161614895**

Q.21 The metals that produce a sound on striking a hard surface are called:

Ans ✗ 1. ferrous

✗ 2. porous

✔ 3. sonorous

✗ 4. igneous

Question ID : **8161614899**

Q.22 Which of the following is the oldest paramilitary force in India?

Ans ✗ 1. Indo-Tibetan Border Police

✗ 2. Central Reserve Police Force

✗ 3. Central Industrial Security Force

✔ 4. Assam Rifles

Question ID : **8161614914**

Q.23 In which of the following places was the Hindustan Socialist Republican Association (HSRA) founded in 1928?

Ans ✗ 1. Karachi

✗ 2. Lahore

✗ 3. Amritsar

✔ 4. Delhi

Question ID : **8161614905**

Q.24 Which of the following instruments is used for measuring radiation?

Ans ✔ 1. Bolometer

✗ 2. Carburettor

✗ 3. Calliper

✗ 4. Galvanometer

Question ID : **8161614900**

Q.25 An initiative by the Union Government for encouraging farmers to set up solar power generation capacity on their fallow/barren lands and sell it to the grid is called:

Ans ✗ 1. PM-UDAN

✗ 2. PM-CARES

✗ 3. PM-SAMMAN

✓ 4. PM-KUSUM

Question ID : **8161614913**