



SSC GD 18th Feb 2019 Shift-2

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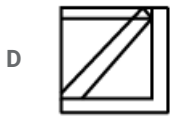
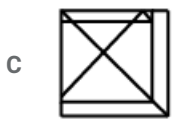
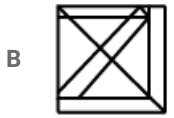
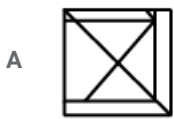
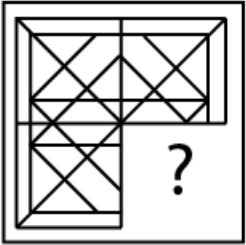
Reasoning

Instructions

For the following questions answer them individually

Question 1

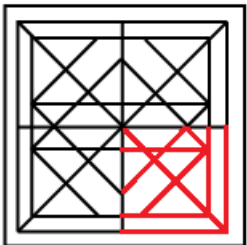
Select a figure from amongst the four alternatives that when placed in the blank space (?) of figure X will complete the pattern. (Rotation is not allowed).



Answer: B

Explanation:

If we complete the above figure, then the missing pattern is represented by the red colour.

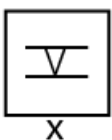


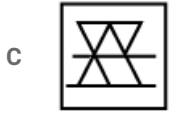
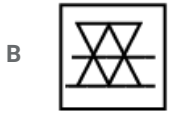
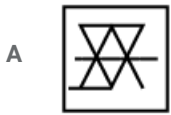
=> Ans - (B)

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Question 2

Choose the option in which the figure marked 'X' is embedded. (Rotation is not allowed)





Answer: B

Explanation:

The question figure is embedded in following figure and is represented by red colour.



=> Ans - (B)

Question 3

Choose the odd one out of the given options.

A KJL

B FIL

C GIK

D DKL

Answer: A

Explanation:

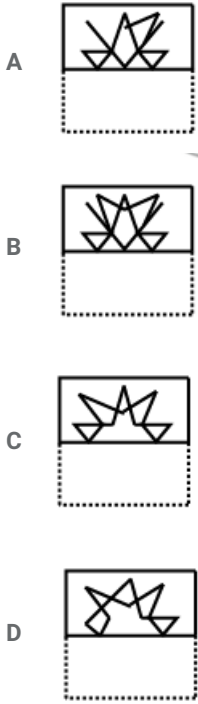
Among the given options, only in **KJL**, there are consecutive letters from English alphabetical order.

=> Ans - (A)

Question 4

A square transparent sheet with a pattern is given. How will the pattern appear when the transparent sheet is folded along the dotted line?





Answer: B

SSC GD Important Questions and Answers PDF

Question 5

Select the option that is related to the third number in the same way as the second number is related to the first number.
 $36 : 324 :: 11 : ?$

- A 259
- B 121
- C 22
- D 221

Answer: C

Explanation:

Expression = $36 : 324 :: 11 : ?$

The pattern followed is that the number on the left is multiplied by the sum of its digits.

Eg :- $36 \times (3 + 6) = 324$

Similarly, $11 \times (1 + 1) = 11 \times 2 = 22$

=> Ans - (C)

Question 6

The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statements:

- 1) All toads are frogs.
- 2) All frogs are snakes.

Conclusion:

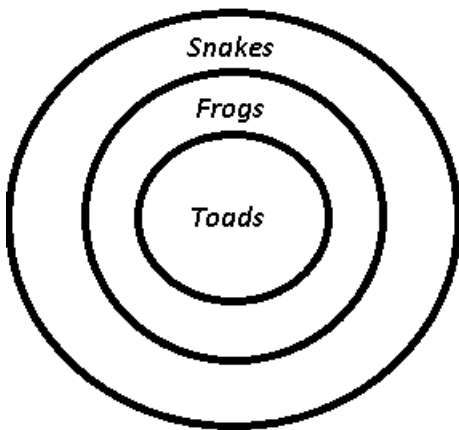
- I. Some snakes are toads.
- II. Some frogs are toads.

- A Only conclusion I follows.
- B Either conclusion I or conclusion II follows.
- C Both conclusions follow.
- D Only conclusion II follows.

Answer: C

Explanation:

The venn diagram for above statements is :



Conclusion:

- I. Some snakes are toads = true
- II. Some frogs are toads = true

Thus, both conclusion follow.

=> Ans - (C)

Question 7

Eight friends A, B, C, D, E, F, G and H are sitting around circular table facing each other for a lunch. A is opposite D and third to the right of B. G is between A and F. H is to the right of A. E is between C and D. Who is sitting opposite B?

- A C
- B E
- C F
- D H

Answer: D

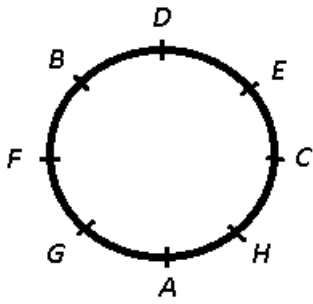
Explanation:

A is opposite D and third to the right of B. Also, E is between C and D.

=> B is to the immediate right of D.

G is between A and F, => G is to the immediate left of A.

H is to the immediate right of A.



Thus, H is sitting opposite B.

=> Ans - (D)

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Question 8

Seven friends O, P, Q, R, S, T and U are watching a movie sitting in a row. P is sitting at one extreme end. Q is sitting to the immediate left of S. P is sitting second to the right of T. U is not sitting at any extreme end. O is sitting between R and T. Who is sitting at the extreme left end?

A T

B Q

C R

D P

Answer: B

Explanation:

P is sitting at one extreme end and second to the right of T, => P is at extreme right end.

O is sitting between R and T, => O is in the middle of the row and R to its immediate left.

Q is sitting to the immediate left of S, => Q is at extreme left end.

Q	S	R	O	T	U	P
---	---	---	---	---	---	---

Thus, Q is sitting at extreme left end.

=> Ans - (B)

Question 9

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

Ichthyology : Fishes :: Hematology : ?

A Ligaments

B Blood

C Tissue

D Bone

Answer: B

Explanation:

Ichthyology is the branch of zoology that deals with fishes while Hematology is the branch of medicine involving study and treatment of the **blood**.

=> Ans - (B)

Question 10

Select the option that will correctly replace the question mark (?) in the series.
5, 17, 34, 61, ?

- A 105
- B 103
- C 115
- D 125

Answer: B

Explanation:

The pattern followed is that numbers with successive multiples of 5 between them are added.

$$5 + 12 = 17$$

$$17 + 17 = 34$$

$$34 + 27 = 61$$

$$61 + 42 = \mathbf{103}$$

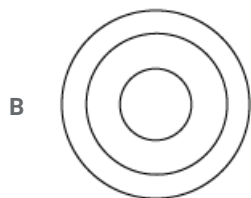
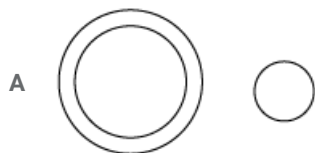
=> Ans - (B)

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Question 11

Select the Venn diagram that best represents the given set of classes.

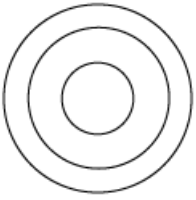
Paragraph, Word, Sentence



Answer: B

Explanation:

A group of words form a sentence, and a group of sentence forms a paragraph, hence the venn diagram that best describes above relationship is :

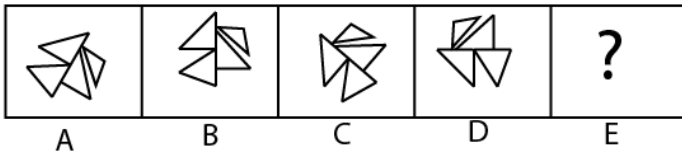


=> Ans - (B)

Question 12

Choose the option that would follow next in the given figure series.

Problem Fig.



Answer: B

Explanation:

The pattern followed is that the little gap between the two triangles in the first figure is pointing at top left and is moving in anti clockwise direction, i.e. in the second figure is pointing at left side, then bottom left and then at bottom, thus in the missing figure, it will face bottom right as shown in second figure.

=> Ans - (B)

Question 13

Find out the two signs to be interchanged to make the following equation correct.

$$25 + 25 \times 25 - 25 \div 25 = -599$$

A + and \times

B \times and \div

C - and \times

D - and \div

Answer: B

Explanation:

$$\text{Expression : } 25 + 25 \times 25 - 25 \div 25 = -599$$

(A) : + and \times

$$\text{L.H.S.} \equiv 25 \times 25 + 25 - 25 \div 25$$

$$= 625 + 25 - 1 = 649$$

(B) : \times and \div

$$\text{L.H.S.} \equiv 25 + 25 \div 25 - 25 \times 25$$

$$= 25 + 1 - 625 = -599 = \text{R.H.S.}$$

=> Ans - (B)

SSC CPO Previous Question papers (download pdf)

Question 14

Choose the option that most closely resembles the mirror image of the given figure.



A



B



C



D



Answer: A

Explanation:

The last image is same as the question figure, hence it is eliminated, moreover the shape of the ring will remain vertical, hence the

second and third options are also not possible. Only the position of stars will be changed as shown in first figure.

=> Ans - (A)

Question 15

Choose the odd number out of the given options.

A 65

B 52

C 26

D 97

Answer: D

Explanation:

Among the given numbers, except for **97**, all the numbers are divided by 13. Also, 97 is the only prime number given.

=> Ans - (D)

Question 16

Select the option that will correctly replace the question mark (?) in the series.

102, 98, 82, 46, ?

A 20

B 18

C -20

D -18

Answer: D

Explanation:

Squares of consecutive even natural numbers are subtracted.

$$102 - (2)^2 = 98$$

$$98 - (4)^2 = 82$$

$$82 - (6)^2 = 46$$

$$46 - (8)^2 = -18$$

=> Ans - (D)

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Question 17

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

Famous : Renowned : Ban : ?

A Use

B Packet

C Allow

D Prohibition

Answer: D

Explanation:

Expression = Famous : Renowned : Ban : ?

Famous and renowned are synonyms, similarly synonym of ban is **prohibition**.

=> Ans - (D)

Question 18

The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statements:

- 1) Some manure are ammonia.
- 2) Some ammonia are potash.

Conclusion:

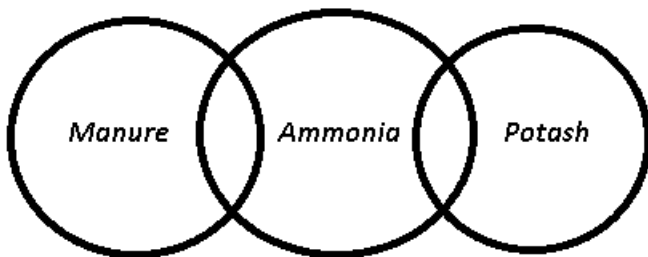
- I. Some ammonia are manure.
- II. Some potash are ammonia.

- A Only conclusion I follows.
- B Both conclusions follow.
- C Neither conclusion I nor conclusion II follows.
- D Only conclusion II follows.

Answer: B

Explanation:

The venn diagram for above statements is :



Conclusion:

- I. Some ammonia are manure = true
- II. Some potash are ammonia = true

Thus, both conclusions follow.

=> Ans - (B)

Question 19

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

LEVEL : MFVDK :: FENCE : ?

- A GFNDB
- B FGND B
- C GFNBD
- D FGNBD

Answer: C

Explanation:

Expression = LEVEL : MFVDK :: FENCE : ?

The pattern followed is :

L	E	V	E	L
(+1)	(+1)	(+0)	(-1)	(-1)
M	F	V	D	K

Similarly, FENCE :

F	E	N	C	E
(+1)	(+1)	(+0)	(-1)	(-1)
G	F	N	B	D

=> Ans - (C)

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Question 20

In a certain code, ABOVE is written as ABEOV. How will QUESTION be written in that code?

- A EINOQSTU
- B EINQOSTU
- C EINOQTSU
- D USINVSIN

Answer: A

Explanation:

ABOVE is written as ABEOV.

The pattern followed is that the letters are arranged in increasing order as per English alphabetical order.

Thus, QUESTION : EINOQSTU

=> Ans - (A)

Question 21

Select the option that will correctly replace the question mark (?) in the given pattern.



- A 13
- B 3
- C 50
- D 49

Answer: C

Explanation:

If we start from 5 and move anti clockwise, we get the pattern that consecutive odd numbers are added.

$$5 + 5 = 10$$

$10 + 7 = 17$

$17 + 9 = 26$

$26 + 11 = 37$

$37 + 13 = 50$

=> Ans - (C)

Question 22

J, K, L, M, N and O are six teachers. Each one teaches a different subject out of Hindi, English, Math, Science, Social Science and Arts, not necessarily in the same order. Each of them teaches on only one day, from Monday to Saturday, not necessarily in the same order.

J teaches Science on Wednesday. O teaches Math second after J. K teaches on the first day of the week, but teaches neither Hindi nor English. M teaches English before N and L teaches Arts before J. Which subject is taught on Saturday?

- A Hindi
- B English
- C Social Science
- D Science

Answer: A

Explanation:

J teaches Science on Wednesday. O teaches Math second after J, => O teaches on Friday.

L teaches Arts before J, => L teaches on Tuesday.

K teaches on the first day of the week, but teaches neither Hindi nor English, => K teaches Social Science

M teaches English before N, => N teaches Hindi.

Day	Teacher	Subject
Monday	K	Social Science
Tuesday	L	Arts
Wednesday	J	Science
Thursday	M	English
Friday	O	Maths
Saturday	N	Hindi

Thus, Hindi is taught on Saturday.

=> Ans - (A)

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Question 23

Choose the odd one out of the given options.

- A Ear
- B Kidney
- C Eye

D Nose

Answer: B

Explanation:

The organs ear, eyes and nose can be seen from outside and can be touched, but kidney being inside the human body is the odd one.

=> Ans - (B)

Question 24

In a certain code. DIG is written as 20. How will FEED be written in that code?

A 80

B 60

C 20

D 90

Answer: C

Explanation:

If all the alphabets in the English alphabetical order are written sequentially, then A=1, B=2, C=3, D=4 and so on.

Then, DIG $\equiv 4 + 9 + 7 = 20$

Similarly, FEED $\equiv 6 + 5 + 5 + 4 = 20$

=> Ans - (C)

Question 25

Select the option that will correctly replace the question mark (?) in the series.
QFM, OHL, MJK, ?

A KJL

B KLJ

C JKL

D LKJ

Answer: B

Explanation:

Series : QFM, OHL, MJK, ?

The pattern followed in each letter of the terms is :

1st letter : Q (-2 letters) = O (-2 letters) = M (-2 letters) = K

2nd letter : F (+2 letters) = H (+2 letters) = J (+2 letters) = L

3rd letter : M (-1 letter) = L (-1 letter) = K (-1 letter) = J

Thus, missing term = **KLJ**

=> Ans - (B)

SSC Stenographer Previous Papers (Download PDF)

General knowledge

Instructions

For the following questions answer them individually

Question 26

The Himalayas are an example of mountains.

- A block
- B plateau
- C volcanic
- D fold

Answer: D

SSC GD Constable Previous Papers

Question 27

The raga 'Miya Malhar' was created by:

- A Tansen
- B Mira Bai
- C Amir Khusro
- D Pandit Jasraj

Answer: A

Question 28

Pokkali, a unique variety of rice which can sustain in salinity is endemic to which state of India?

- A Goa
- B Andhra Pradesh
- C Kerala
- D Telangana

Answer: C

Question 29

With reference to the Kangra School of Painting, which of the following statements is correct?

- A Its theme is prosaic in nature
- B It uses strong colours with deep Red and Black
- C It was inspired by the Vaishnavite traditions
- D It was developed during the reign of Samudragupta

Answer: C

SSC MTS Previous Papers (DOWNLOAD PDF)

Question 30

When the government's total revenue, excluding borrowings, is less than the planned expenditure, it is called:

- A revenue deficit
- B budget shortfall
- C fiscal deficit
- D deficit financing

Answer: C

Question 31

"Sanitation is more important than independence" – Who said this?

- A C Rajagopalachari
- B Mahatma Gandhi
- C Jawaharlal Nehru
- D Subhash Chandra Bose

Answer: B

Question 32

"Sattriya" is a dance form which has its origins in which state of India?

- A Karnataka
- B Andhra Pradesh
- C Tamil Nadu
- D Assam

Answer: D

SSC GD Constable Previous Papers (DOWNLOAD PDF)

Question 33

With which sport is Durand Cup associated?

- A Football
- B Hockey
- C Tennis
- D Cricket

Answer: A

Question 34

Ozone depletion is greatest near:

- A tropics
- B equator
- C poles
- D oceans

Answer: C

Question 35

Which institution is responsible for calculating the GDP of India?

- A Ministry of Finance
- B Reserve Bank of India
- C Central Statistics Office
- D Chief Economic Advisor

Answer: C

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 36

When you heat a China dish containing 1gm of Copper powder, a Black substance is formed on the surface of the powder due to:

- A Atomization
- B Carbonization
- C Oxidation
- D Desalinization

Answer: C

Question 37

Bedaquiline drug was developed to treat which of the following diseases?

- A Acute Myeloid Leukemia
- B Cholera
- C MDR-TB
- D Osteoarthritis

Answer: C

Question 38

Which of the following features are used by Protista organisms for locomotion?

- A Maxillia
- B Flagella

C Ephemera

D Chimera

Answer: B

SSC CGL Free Mock Test (Latest Pattern)

Question 39

Andal, a Bhakti saint was associated to which of the following religious sects?

A Vaishnavism

B Shaivism

C Shaktism

D Buddhism

Answer: A

Question 40

When were the first modern Olympic Games held?

A 1896

B 1935

C 1943

D 1921

Answer: A

Question 41

Which of the following rivers flows into the Arabian Sea?

A Narmada

B Kaveri

C Krishna

D Godavari

Answer: A

SSC CHSL Free Mock Test (Latest Pattern)

Question 42

Which is the highest peace time gallantry award in India?

A Ashok Chakra

B Kirti Chakra

C Mahavir Chakra

D Param Vir Chakra

Answer: A

Question 43

Who is the author of the book 'The Discovery of India'?

A Atal Bihari Vajpayee

B Indira Gandhi

C Mahatma Gandhi

D Jawaharlal Nehru

Answer: D

Question 44

The Planning Commission was set up by the Government of India in the year:

A 1948

B 1950

C 1949

D 1951

Answer: B

SSC Stenographer Previous Papers (Latest Pattern)

Question 45

Which of the following is NOT a feature of the Constitution of India?

A Separation of Powers

B Unitary System

C Fundamental Rights

D Federalism

Answer: B

Question 46

As per 2011 census, which of the following states in India has the lowest population density?

A Sikkim

B Chhattisgarh

C Arunachal Pradesh

D Himachal Pradesh

Answer: C

Question 47

A loan becomes a Non-Performing Asset (NPA) when the interest or principal becomes overdue for a period of:

- A 5 years
- B 90 days
- C 180 days
- D 365 days

Answer: B

SSC GD Constable Free Mock Test (Latest Pattern)

Question 48

A Eukaryotic cell has membrane bound organelles, including a nucleus, which allow cellular processes to be carried out in

- A Bifurcation
- B Isolation
- C Inclusion
- D Cassation

Answer: B

Question 49

The 'Gandhara School of Art' was developed under the Dynasty.

- A Kushana
- B Maurya
- C Nanda
- D Chola

Answer: A

Question 50

The Constituent Assembly met for the first time in

- A 1945
- B 1946
- C 1947
- D 1948

Answer: B

SSC MTS Free Mock Test (Latest Pattern)

Instructions

For the following questions answer them individually

Question 51

Three persons A, B and C started a business with their shares in the ratio 3 : 4 : 5. After 4 months B withdrew his 50% share and C withdrew his 20% share 4 months prior to completion of the year. If total profit in the year is ₹ 31,000 then find the share of A in the profit.

- A ₹7750
- B ₹9000
- C ₹9300
- D ₹10330

Answer: B

Explanation:

Let shares of A, B and C respectively be $3x$, $4x$ and $5x$

$$\text{Ratio of profit} = [3x \times 12] : [(4x \times 4) + (2x \times 8)] : [(5x \times 8) + (4x \times 4)]$$

$$= 36x : 32x : 56x$$

$$= 9 : 8 : 14$$

Also, total profit = Rs. 31,000

$$\therefore \text{A's profit share} = \frac{9}{(9+8+14)} \times 31,000 = \text{Rs. } 9,000$$

=> Ans - (B)

SSC CPO Free Mock Test (Latest Pattern)

Question 52

Marked price of an article is ₹ 8840. If discount of 35% is given on the article, then what will be the selling price of the article?

- A ₹6324
- B ₹6176
- C ₹6548
- D ₹5746

Answer: D

Explanation:

Marked price = Rs. 8840 and discount % = 35%

$$\Rightarrow \text{Selling price} = 8840 - \frac{35}{100} \times 8840$$

$$= 8840 - 3094 = \text{Rs. } 5746$$

=> Ans - (D)

Question 53

Anil, Dinesh and Deepak together can complete a work in 40 days. Anil and Dinesh together can complete the same work in 50 days. In how many days Deepak alone can complete the same work?

- A 90 days
- B 200 days
- C 150 days
- D 75 days

Answer: B

Explanation:

Time taken by Anil, Dinesh and Deepak together to complete the work = 40 days

Time taken by Anil and Dinesh together = 50 days

$$\Rightarrow \text{Work done by Deepak alone} = \frac{1}{40} - \frac{1}{50}$$

$$= \frac{5-4}{200} = \frac{1}{200}$$

\therefore Time taken = **200 days**

\Rightarrow Ans - (B)

Question 54

Suraj covers a distance of 18 km in 12 minutes. If his speed is decreases by 30 km/hr, then how much time will Suraj take to cover the same distance?

- A 12 minutes
- B 16 minutes
- C 20 minutes
- D 18 minutes

Answer: D

Explanation:

$$18 \text{ km is covered in 12 minutes} = \frac{12}{60} = 0.2 \text{ hours}$$

$$\Rightarrow \text{Speed} = \frac{18}{0.2} = 90 \text{ km/hr}$$

If speed is decreased by 30 km/hr, \Rightarrow new speed = 60 km/hr

$$\text{Thus, time taken to cover 18 km} = \frac{18}{60} = 0.3 \text{ hours}$$

$$= 0.3 \times 60 = 18 \text{ minutes}$$

\Rightarrow Ans - (D)

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Question 55

The difference between the simple interest and compound interest(interest is compounded half yearly) on a sum at the rate of 25% per annum for one year is ₹ 4375. What will be the principal?

- A ₹ 280000
- B ₹ 85000
- C ₹ 80000
- D ₹ 75000

Answer: A

Explanation:

Let the principal sum = Rs. $100x$

Rate of interest = $r = 25\%$ and time = $t = 1$ year

$$\begin{aligned}\text{Simple interest} &= \frac{P \times r \times t}{100} \\ &= \frac{100x \times 25 \times 1}{100} = \text{Rs. } 25x\end{aligned}$$

$$\begin{aligned}\text{Compound interest (compounded half yearly for 1 year)} &= P \left[\left(1 + \frac{r}{200} \right)^2 - 1 \right] \\ &= 100x \left[\left(1 + \frac{25}{200} \right)^2 - 1 \right] \\ &= 100x \left[\left(\frac{9}{8} \right)^2 - 1 \right] \\ &= 100x \times \left(\frac{17}{64} \right) = \text{Rs. } 26.5625x\end{aligned}$$

$$\therefore \text{Difference} = 26.5625x - 25x = 4375$$

$$\Rightarrow x = \frac{4375}{1.5625} = 2800$$

$$\therefore \text{Principal sum} = 100 \times 2800 = \text{Rs. } 2,80,000$$

\Rightarrow Ans - (A)

Question 56

A shopkeeper sells two articles, one of them with a profit of 10% for ₹ 1100 and another with a loss of 10% for ₹ 900. What will be the profit or loss percent?

- A 10% profit
- B Neither profit nor loss
- C 20% profit
- D 20% loss

Answer: B

Explanation:

Cost price of article which was sold with a profit of 10% for ₹ 1100

$$\Rightarrow C_1 = \frac{1100}{110} \times 100 = \text{Rs. } 1000$$

$$\text{Similarly, cost price of other article} = C_2 = \frac{900}{90} \times 100 = \text{Rs. } 1000$$

$$\text{Total S.P.} = 1100 + 900 = \text{Rs. } 2000$$

$$\text{Similarly, total C.P.} = 1000 + 1000 = \text{Rs. } 2000$$

\therefore Total selling price is equal to total cost price, thus there was **neither profit nor loss**.

\Rightarrow Ans - (B)

Question 57

A bag has ₹ 785 in the denomination of ₹ 2, ₹ 5 and ₹ 10 coins. The coins are in the ratio of 6 : 9 : 10. How many coins of ₹ 5 are in the bag?

- A 60
- B 12
- C 45

D 24

Answer: C

Explanation:

Let number of coins of ₹ 2, ₹ 5 and ₹ 10 be $6x$, $9x$ and $10x$ respectively.

Thus, total amount = $(2 \times 6x) + (5 \times 9x) + (10 \times 10x) = 785$

$\Rightarrow 12x + 45x + 100x = 157x = 785$

$\Rightarrow x = \frac{785}{157} = 5$

\therefore Number of Rs. 5 coins = $9 \times 5 = 45$

\Rightarrow Ans - (C)

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Question 58

The table given below shows the number of students enrolled in different courses of different colleges.

Colleges	Courses			
	B1	B2	B3	B4
C1	65	56	65	103
C2	68	58	71	112
C3	72	54	88	125
C4	76	52	75	120
C5	69	60	79	126

Which college has the highest average number of students per course?

A C4

B C2

C C3

D C5

Answer: C

Explanation:

Total number of students per course in :

C4 : $76 + 52 + 75 + 120 = 323$

C2 : $68 + 58 + 71 + 112 = 309$

C3 : $72 + 54 + 88 + 125 = 339$ [max]

C5 : $69 + 60 + 79 + 126 = 334$

\Rightarrow Ans - (C)

Question 59

In the table given below Marks of 4 students in 5 different Subjects are given. Total Marks of each subject is 100.

	Math	English	Hindi	Social Science	Science
S1	98	60	85	75	92
S2	97	65	80	80	90
S3	95	70	85	70	95
S4	96	62	70	80	90

What is the difference in average marks of students S1 and S4?

- A 1.4
- B 3.4
- C 2
- D 2.4

Answer: D

Explanation:

Difference in total marks of students S1 and S4

$$= (98 + 60 + 85 + 75 + 92) - (96 + 62 + 70 + 80 + 90)$$
$$= 2 - 2 + 15 - 5 + 2 = 12$$

$$\therefore \text{Required difference of average marks} = \frac{12}{5} = 2.4$$

=> Ans - (D)

Question 60

If 30% of x is same as 40% of y then what is y : x ?

- A 4 : 3
- B 3 : 4
- C 7 : 4
- D 4 : 7

Answer: B

Explanation:

Given : 30% of x = 40% of y

$$\Rightarrow 30x = 40y$$

$$\Rightarrow \frac{y}{x} = \frac{30}{40} = \frac{3}{4}$$

$$\therefore y : x = 3 : 4$$

=> Ans - (B)

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Question 61

Three cubes each of sides 7 cm are joined end to end. Find the surface area of the resulting solid.

A 686 cm^2

B 866 cm

C 882 cm^2

D 343 cm

Answer: A

Explanation:

When the three cubes are joined, a cuboid will be formed of length = $l = 21 \text{ cm}$, $b = 7 \text{ cm}$ and $h = 7 \text{ cm}$

Total surface area = $2(lb + bh + hl)$

= $2 \times [(21 \times 7) + (7 \times 7) + (7 \times 21)]$

= $2 \times (147 + 49 + 147)$

= $2 \times 343 = 686 \text{ cm}^2$

=> Ans - (A)

Question 62

If a 32 year old man is replaced by a new man, then the average age of 42 men increases by 1 year. What is the age of the new man?

A 72 years

B 75 years

C 74 years

D 73 years

Answer: C

Explanation:

Let average age of original 42 men = x years and age of new man = y years

=> Total age of 42 men = $42x$ years

According to ques,

=> $\frac{42x - 32 + y}{42} = x + 1$

=> $42x - 32 + y = 42x + 42$

=> $y = 42 + 32 = 74$ years

=> Ans - (C)

Question 63

A solid toy is in the form of hemisphere surmounted by right circular cone. Height of the cone is 4 cm and diameter of the base is 6 cm. What will be the surface area of the toy?

A $\frac{660}{7} \text{ cm}^2$

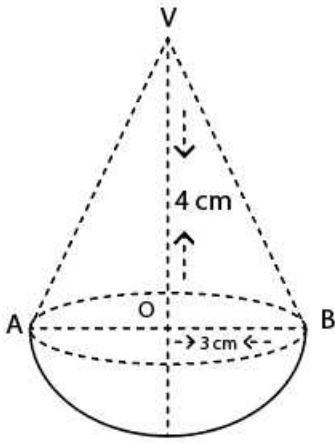
B $\frac{528}{7} \text{ cm}^2$

C $\frac{726}{7} \text{ cm}^2$

D $\frac{66}{7} \text{ cm}^2$

Answer: C

Explanation:



Radius of cone and hemisphere = $r = 3$ cm and height = $h = 4$ cm

Thus, slant height = $l = \sqrt{3^2 + 4^2} = \sqrt{25} = 5$ cm

Surface area of toy = Curved surface area of cone + Curved surface area of hemisphere

$$= \pi r l + 2\pi r^2$$

$$= \pi r(l + 2r)$$

$$= \left(\frac{22}{7} \times 3\right) \times (5 + 6)$$

$$= \frac{726}{7} \text{ cm}^2$$

=> Ans - (C)

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Question 64

What is the value of $\left[100 \div 50 - 25 - 55 \text{ of } \left(\frac{1}{3} \times \frac{11}{9}\right)\right]$?

A $-\frac{1156}{27}$

B $-\frac{1382}{27}$

C $-\frac{1321}{27}$

D $-\frac{1226}{27}$

Answer: D

Explanation:

Expression : $\left[100 \div 50 - 25 - 55 \text{ of } \left(\frac{1}{3} \times \frac{11}{9}\right)\right]$

$$= \left[\left(\frac{100}{50}\right) - 25 - \left(55 \times \frac{11}{27}\right)\right]$$

$$= (2 - 25) - \frac{605}{27}$$

$$= \frac{-621 - 605}{27} = \frac{-1226}{27}$$

=> Ans - (D)

Question 65

From solid cylinder with base diameter 14 cm and height 20 cm hemispherical parts were cut from both the ends of the cylinder. Find the volume of the resultant object?

A $\frac{4312}{3} \text{ cm}^3$

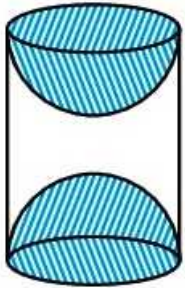
B $\frac{4928}{3} \text{ cm}^3$

C $\frac{9240}{3} \text{ cm}^3$

D $\frac{13552}{3} \text{ cm}^3$

Answer: B

Explanation:



Radius of cylinder = 7 cm and height = 20 cm

Radius of the hemisphere = 7 cm

Volume of remaining part = Volume of cylinder - 2 × Volume of hemisphere

$$= \pi r^2 h - \left(2 \times \frac{1}{2} \times \frac{4}{3} \pi r^3\right)$$

$$= (\pi r^2) \left[h - \frac{4r}{3}\right]$$

$$= \left(\frac{22}{7} \times 7 \times 7\right) \times \left(20 - \frac{28}{3}\right)$$

$$= 154 \times \frac{32}{3} = \frac{4928}{3} \text{ cm}^3$$

=> Ans - (B)

Question 66

A sum of ₹ 4000 is lent on simple interest at the rate of 10% per annum. Simple interest for 5 years is how much more than the simple interest for 3 years?

A ₹ 400

B ₹ 600

C ₹ 800

D ₹ 1200

Answer: C

Explanation:

Principal sum = Rs. 4000 and rate of interest = 10%

$$\text{Simple interest} = \frac{P \times R \times T}{100}$$

Thus, difference between interest of 5 years and of 3 years = Simple interest for 2 years

$$= \frac{4000 \times 10 \times 2}{100} = \text{Rs. } 800$$

=> Ans - (C)

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Question 67

14 observations are 10, 11, 11, 12, 13, 14, 12, 13, 10, 12, 12, 14, 14 and 15.

What is the median of the given observations?

- A 12
- B 13
- C 14
- D 10

Answer: A

Explanation:

Data in ascending order = 10, 10, 11, 11, 12, 12, 12, 12, 13, 13, 14, 14, 14, 15

Thus, middle two terms (since there are even number of terms) = 12, 12

Thus, median = $\frac{12+12}{2} = 12$

=> Ans - (A)

Question 68

If Vijay is travelling at the speed of 17.5 m/s, then how much distance will Vijay cover in 26 hours?

- A 1474 km
- B 1562 km
- C 1572 km
- D 1638 km

Answer: D

Explanation:

Vijay's speed = $(17.5 \times \frac{18}{5})$ km/hr = 63 km/hr

=> Distance travelled in 26 hours = $63 \times 26 = 1638$ km

=> Ans - (D)

Question 69

The table given below shows the number of students enrolled in different courses of different colleges.

Colleges	Courses			
	B1	B2	B3	B4
C1	65	56	65	103
C2	68	58	71	112
C3	72	54	88	125
C4	76	52	75	120
C5	69	60	79	126

What is the average number of students per college enrolled in course B2?

- A 60
- B 56
- C 58
- D 53

Answer: B

Explanation:

Total number of students per college enrolled in course B2

$$= 56 + 58 + 54 + 52 + 60 = 280$$

$$\Rightarrow \text{Required average} = \frac{280}{5} = 56$$

\Rightarrow Ans - (B)

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Question 70

Product of Highest Common Factor and Least Common Multiple of two numbers is 216. If one of the numbers is 12, then what will be the ratio of these two numbers?

A 3 : 5

B 1 : 6

C 2 : 3

D 1 : 2

Answer: C

Explanation:

Product of 2 numbers a and $b = \text{L.C.M.}(a,b) \times \text{H.C.F.}(a,b)$

$$\Rightarrow \text{Second number} = \frac{216}{12} = 18$$

$$\therefore \text{Ratio of the two numbers} = \frac{12}{18} = 2 : 3$$

\Rightarrow Ans - (C)

Question 71

What is the value of $28 \div (11 - 4) + 384 \div (15 + 16 \div 4 + 4)$?

A $\frac{472}{23}$

B $\frac{476}{23}$

C $\frac{512}{23}$

D $\frac{524}{23}$

Answer: B

Explanation:

Expression : $28 \div (11 - 4) + 384 \div (15 + 16 \div 4 + 4)$

$$= (28 \div 7) + 384 \div (15 + 4 + 4)$$

$$= 4 + \frac{384}{23}$$

$$= \frac{92+384}{23} = \frac{476}{23}$$

\Rightarrow Ans - (B)

Question 72

If 40% of a number is 105 more than the one-fourth of that number, then what will be the difference between the number and 35% of the number?

- A 315
- B 495
- C 455
- D 375

Answer: C

Explanation:

Let the number be $100x$

To find : Difference between the number and 35% of the number = 65% of the number = $65x = ?$

According to ques,

$$\Rightarrow \frac{40}{100} \times 100x = \frac{100x}{4} + 105$$

$$\Rightarrow 40x - 25x = 15x = 105$$

$$\Rightarrow x = \frac{105}{15} = 7$$

$$\therefore 65x = 65 \times 7 = 455$$

\Rightarrow Ans - (C)

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Question 73

P alone can complete a work in 16 days and Q alone can complete the same work in 20 days. P and Q start the work together but Q leaves the work 7 days before the completion of work. In how many days the total work will be completed?

- A 9 days
- B 14 days
- C 12 days
- D 18 days

Answer: C

Explanation:

Let total work to be done = L.C.M.(16,20) = 80 units

$$\Rightarrow \text{P's efficiency} = \frac{80}{16} = 5 \text{ units/day and Q's efficiency} = 4 \text{ units/day}$$

Let the work is finished in t days, then P alone worked for 7 days, and P and Q together worked for $(t - 7)$ days

According to ques,

$$\Rightarrow 9(t - 7) + (5 \times 7) = 80$$

$$\Rightarrow 9t - 63 + 35 = 80$$

$$\Rightarrow t = \frac{108}{9} = 12 \text{ days}$$

\Rightarrow Ans - (C)

Question 74

The average monthly income of P and Q is ₹ 20000. The average monthly income of Q and R is ₹ 40000. Monthly income of R is how much more than monthly income of P?

- A ₹40000

- B ₹80000
- C ₹20000
- D ₹25000

Answer: A

Explanation:

Total income of P and Q = $P + Q = \text{Rs. } 40,000$ -----(i)

Similarly, $Q + R = \text{Rs. } 80,000$ -----(ii)

Subtracting equation (i) from (ii), we get :

$$\Rightarrow R - P = \text{Rs. } 40,000$$

\Rightarrow Ans - (A)

Question 75

Raju purchased glasses at the rate of ₹ 15 per glass and sold them at the rate of ₹ 12 per glass. On selling 42 glasses, what will be the loss percentage?

- A 33.33%
- B 25%
- C 20%
- D 14.28%

Answer: C

Explanation:

Loss % of 42 glasses = Loss % of 1 glass

$$= \frac{(15-12)}{15} \times 100$$

$$= \frac{1}{5} \times 100 = 20\%$$

\Rightarrow Ans - (C)

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English

Instructions

For the following questions answer them individually

Question 76

Select the option that means the same as the given idiom.

To miss the boat

- A To miss an opportunity
- B To miss the journey by boat
- C To fail to complete the work
- D To decide to travel by air

Answer: A

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Question 77

Select the antonym of the given word

CONTRARY

- A Predetermined
- B Agreeable
- C Balanced
- D Neutral

Answer: B

Question 78

Select the most appropriate word to fill in the blank.

India's Republic Day Parade had, among the main, an all-women's marching contingent.

- A displays
- B spectacle
- C demonstrations
- D attractions

Answer: D

Question 79

From the given options, identify the segment in the sentence which contains the grammatical error.

Having worked for the whole day, you shall have taken somerest and begun again.

- A Having worked for
- B some rest and begun again
- C the whole day
- D you should have taken

Answer: D

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Question 80

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select **No improvement**.

In the interview held recently, I answer the questions as best as I could.

- A I answer the question as best as I could.
- B I answered the questions as best as I could.
- C I answered the question as best as I can.

D No improvement.

Answer: B

Question 81

From the given options, identify the segment in the sentence which contains the grammatical error.
The researchers have found that all species makes a constructive contribution to the ecology of the earth.

A a constructive contribution to

B that all species makes

C the ecology of the earth.

D The researchers have found

Answer: B

Question 82

Select the word which means the same as the group of words given.
The method and practice of teaching

A Psychology

B Methodology

C Pedagogy

D Philosophy

Answer: C

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Question 83

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

As you can see from my resume, I am working in Mumbai since 2016.

A No improvement.

B I am work in Mumbai since 2016.

C I am working in Mumbai from 2016.

D I have been working in Mumbai since 2016.

Answer: D

Question 84

From the given options, identify the segment in the sentence which contains the grammatical error.
One could argue that these are the compulsions of parliamentary democracy for smooth functioning for the State.

A these are the compulsions

B of parliamentary democracy

C functioning for the State.

D One could argue that

Answer: C

Question 85

Select the word which means the same as the group of words given.

A person who presents a radio/television programme

A Alchemist

B Reporter

C Anarchist

D Anchor

Answer: D

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Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given.

Passage:

Given that the availability of safe drinking water touches the lives of everyone, the(1) of Safe Drinking Water Mission can hardly be underestimated. Undoubtedly, this is one of the most(2) public goods problems to solve. The private solution of reaching out for bottled water due to risks posed by tap water is a(3) one. Even the poor are forced to choose between risking hospital expenses and buying bottled water. Taking into consideration the(4) scenario, it is the duty of every citizen to find out possible and inexpensive means to(5) that safe drinking water is available to all.

Question 86

Select the most appropriate option that will fill in the blank number 1.

A significance

B safety

C progress

D consequence

Answer: A

Question 87

Select the most appropriate option that will fill in the blank number 2.

A difficult

B complete

C whole

D ready

Answer: A

Question 88

Select the most appropriate option that will fill in the blank number 3.

- A simple
- B material
- C factual
- D costly

Answer: D

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Question 89

Select the most appropriate option that will fill in the blank number 4.

- A public
- B present
- C general
- D rural

Answer: B

Question 90

Select the most appropriate option that will fill in the blank number 5.

- A ensure
- B endorse
- C confirm
- D assure

Answer: A

Instructions

For the following questions answer them individually

Question 91

Select the correctly spelt word.

- A Buraucracy
- B Bureaucrasy
- C Bureucracy
- D Bureaucracy

Answer: D

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Question 92

Select the synonym of the given word.

MITIGATE

- A Improve
- B Excuse
- C Lessen
- D Moderate

Answer: C

Question 93

Select the synonym of the given word.

INDUSTRIOUS

- A Prompt
- B Fruitful
- C Diligent
- D Practical

Answer: C

Question 94

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select **No improvement**.

The river is flooded and it has overflown its banks.

- A it overflowing its banks.
- B it has overflow its banks.
- C No improvement.
- D it overflow its banks.

Answer: C

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Question 95

Select the most appropriate option to fill in the blank.

We need not worry about anything his commitment to the work he is assigned.

- A access
- B accept
- C expect
- D except

Answer: D

Question 96

Select the antonym of the given word

SERENE

- A Splendid
- B Superb
- C Showy
- D Stressed

Answer: D

Question 97

Select the most appropriate option to fill in the blank.

If an individual keeps his fingers crossed he..... for the best.

- A reacts
- B suspects
- C hopes
- D responds

Answer: C

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Question 98

Select the correctly spelt word.

- A Mathmetics
- B Mathamatics
- C Mathametics
- D Mathematics

Answer: D

Question 99

Select the most appropriate option to fill in the blank.

Sometimes it is necessary for an author to know what is going on in the minds of his

- A listeners
- B viewers
- C audience
- D characters

Answer: D

Question 100

Select the option that means the same as the given idiom.

To set aside

- A To move side ways
- B to reject an offer
- C To stop temporarily
- D To finish a work

Answer: C

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