



SSC CHSL 6 March 2018 Afternoon Shift

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Instructions

For the following questions answer them individually

Question 1

A ship is full of cargo containers. It drops $\frac{2}{3}$ of cargo containers at the first port and takes 60 more, at the second port it drops two third of the new total and takes eleven more. On arriving at the third port it is found that it have 48 cargo containers. Find the number of cargo containers in the ship at the starting?

- A 189
- B 159
- C 161
- D 153

Answer: D

Explanation:

Let number of cargo containers in the starting = $3x$

It drops $\frac{2}{3}$ of cargo containers at the first port and takes 60 more.

$$\Rightarrow \text{Number of cargo containers when the ship left first port} = 3x - \left(\frac{2}{3} \times 3x\right) + 60 = (x + 60)$$

Similarly, number of cargo containers after leaving second port = on arriving at third port,

$$\Rightarrow \frac{x+60}{3} + 11 = 48$$

$$\Rightarrow \frac{x+60}{3} = 48 - 11 = 37$$

$$\Rightarrow x + 60 = 37 \times 3 = 111$$

$$\Rightarrow x = 111 - 60 = 51$$

$$\therefore \text{Number of cargo containers in the ship at the starting} = 3 \times 51 = 153$$

\Rightarrow Ans - (D)

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Question 2

Out of a group of three numbers, second is thrice of the first and also twice of the third. If the sum of the three numbers is 55 then find the largest number in the group.

- A 26
- B 29
- C 30
- D 32

Answer: C

Explanation:

Let second number = $6x$

$$\Rightarrow \text{First number} = 2x \text{ and third number} = 3x$$

$$\Rightarrow \text{Sum} = 6x + 2x + 3x = 55$$

$$\Rightarrow x = \frac{55}{11} = 5$$

$$\therefore \text{Largest number} = 6 \times 5 = 30$$

=> Ans - (C)

Question 3

Two whole numbers are such that the cube of first number exceeds the cube of second by 61 and the ratio of the numbers is 5:4. What is the value of larger number?

A 3

B 4

C 5

D 6

Answer: C

Explanation:

Let the numbers be $5x$ and $4x$

According to ques,

$$\Rightarrow (5x)^3 - (4x)^3 = 61$$

$$\Rightarrow 125x^3 - 64x^3 = 61x^3 = 61$$

$$\Rightarrow x^3 = \frac{61}{61} = 1$$

$$\Rightarrow x = \sqrt[3]{1} = 1$$

$$\therefore \text{Larger number} = 5 \times 1 = 5$$

=> Ans - (C)

Question 4

Determine the value of 'x' when $\sqrt[3]{3^x} = 27$

A 1

B 3

C 9

D 12

Answer: C

Explanation:

$$\text{Expression : } \sqrt[3]{3^x} = 27$$

$$\Rightarrow (3)^{\frac{x}{3}} = (3)^3$$

Comparing both exponents, we get :

$$\Rightarrow \frac{x}{3} = 3$$

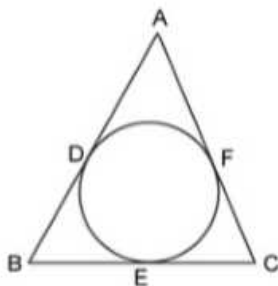
$$\Rightarrow x = 3 \times 3 = 9$$

=> Ans - (C)

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Question 5

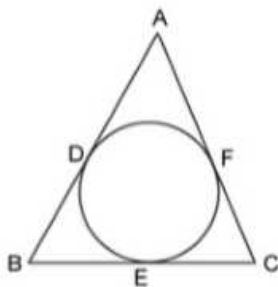
Chose the CORRECT option for the figure shoown below.



- A $AD = AF$
- B $BD = BE$
- C $CE = FC$
- D All options are correct.

Answer: D

Explanation:



If two tangents are drawn to a circle from one external point, then their tangent segments (lines joining the external point and the points of tangency) are equal.

$$\Rightarrow AD = AF, BD = BE, CE = CF$$

Thus, all options are correct.

\Rightarrow Ans - (D)

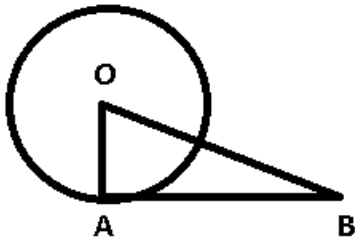
Question 6

Calculate the length of the tangent (in cm) which is drawn from a point at a distance of 13 cm from the centre and the largest chord of that circle is 10 cm.

- A 10
- B 12
- C 15
- D 16

Answer: B

Explanation:



Given : Largest chord in a circle is the diameter, \Rightarrow radius $OA = \frac{10}{2} = 5$ cm and $OB = 13$ cm

To find : $AB = ?$

Solution : In right $\triangle OAB$,

$$\Rightarrow (AB)^2 = (OB)^2 - (OA)^2$$

$$\Rightarrow (AB)^2 = (13)^2 - (5)^2$$

$$\Rightarrow (AB)^2 = 169 - 25 = 144$$

$$\Rightarrow AB = \sqrt{144} = 12 \text{ cm}$$

\Rightarrow Ans - (B)

Question 7

If $C = 1200$ and $D = 1500$, then D is how much percent more than C ?

- A 20
- B 33.33
- C 25
- D 125

Answer: C

Explanation:

$C = 1200$ and $D = 1500$

$$\Rightarrow \text{Required \%} = \frac{(1500 - 1200)}{1200} \times 100$$

$$= \frac{300}{12} = 25\%$$

\Rightarrow Ans - (C)

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Question 8

The ratio of three numbers is 5: 6: 8. If the sum of the three numbers is 380, then what is the smallest among the three numbers?

- A 75
- B 80
- C 120
- D 100

Answer: D

Explanation:

Let three numbers be $5x$, $6x$ and $8x$ respectively.

$$\text{Sum} = 5x + 6x + 8x = 380$$

$$\Rightarrow x = \frac{380}{19} = 20$$

$$\therefore \text{Smallest number} = 5 \times 20 = 100$$

\Rightarrow Ans - (D)

Question 9

20 kg of a mixture of wheat and husk contains 5% husk. How many kg more of husk must be added to make the husk content 20% in the new mixture?

A 2.75

B 3.75

C 4.75

D 5.75

Answer: B

Explanation:

% husk in 20 kg mixture = 5%

$$\Rightarrow \text{Quantity of husk} = \frac{5}{100} \times 20 = 1 \text{ kg}$$

Let x kg of husk is added

According to ques,

$$\Rightarrow x + 1 = \frac{20}{100} \times (x + 20)$$

$$\Rightarrow 5x + 5 = x + 20$$

$$\Rightarrow 5x - x = 20 - 5$$

$$\Rightarrow 4x = 15$$

$$\Rightarrow x = \frac{15}{4} = 3.75$$

\therefore **3.75 kg** of husk must be added to make the husk content 20% in the new mixture.

\Rightarrow Ans - (B)

Question 10

What is the average of first 11 multiples of 11?

A 22

B 44

C 55

D 66

Answer: D

Explanation:

First eleven multiples of 11 will form an arithmetic progression : 11,22,33,.....,121

First term, $a = 11$ and common difference, $d = 11$

$$\text{Sum of } n \text{ terms} = \frac{n}{2}(a + l)$$

$$\Rightarrow S_{11} = \frac{11}{2}(11 + 121)$$

$$= 11 \times 66$$

Now, average of 11 terms = $\frac{11 \times 66}{11} = 66$

=> Ans - (D)

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Question 11

A sum of Rs 15200 is divided into two parts. The simple interest on first part at the rate of 25% per annum is equal to the simple interest on second part at the rate of 13% per annum. What is the interest (in Rs) of each part?

A 2500

B 1300

C 3250

D 1625

Answer: B

Explanation:

Let sum invested for 25% = Rs. $100x$ and sum invested for 13% = Rs. $(15200 - 100x)$

Time period = 1 year

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

According to ques,

$$\Rightarrow \frac{100x \times 25 \times 1}{100} = \frac{(15200 - 100x) \times 13 \times 1}{100}$$

$$\Rightarrow 25x = (152 - x) \times 13$$

$$\Rightarrow 25x = 1976 - 13x$$

$$\Rightarrow 25x + 13x = 38x = 1976$$

$$\Rightarrow x = \frac{1976}{38} = 52$$

$$\therefore \text{Interest for each part} = \frac{100 \times 52 \times 25 \times 1}{100}$$

= Rs. 1300

=> Ans - (B)

Question 12

Selling price of an article is Rs 27692 and loss percentage is 14%. If the selling price is Rs 37352, then what will be the profit percentage?

A 13.8

B 18.6

C 14

D 16

Answer: D

Explanation:

Selling price = Rs. 27,692

Loss % = 14%

$$\Rightarrow \text{Cost price} = \frac{27,692}{(100-14)} \times 100 = \text{Rs. } 32,200$$

If selling price = Rs. 37,352

$$\therefore \text{Profit \%} = \frac{(37,352 - 32,200)}{32,200} \times 100$$

$$= \frac{5152}{322} = 16\%$$

=> Ans - (D)

Question 13

Hiten marks his pen at Rs 9800 and after allowing discount of 20%, he still earns 12% profit. What is the cost price (in Rs) of the pen?

A 7600

B 7200

C 6500

D 7000

Answer: D

Explanation:

Let the cost price = Rs. $100x$

$$\Rightarrow \text{Selling price} = 100x + \frac{12}{100} \times 100x = \text{Rs. } 112x \text{ -----(i)}$$

Also, Marked price = Rs. 9800 and discount % = 20%

$$\Rightarrow \text{Selling price} = 9800 - \frac{20}{100} \times 9800 = 9800 - 1960 = \text{Rs. } 7840 \text{ -----(ii)}$$

From equations (i) and (ii), we get :

$$\Rightarrow 112x = 7840$$

$$\Rightarrow x = \frac{7840}{112} = 70$$

$$\therefore \text{Cost price} = 100 \times 70 = \text{Rs. } 7000$$

=> Ans - (D)

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Question 14

$$\sqrt{361} + \sqrt{3.61} + \sqrt{0.0361} ?$$

A 20.9

B 22.11

C 22.49

D 21.09

Answer: D

Explanation:

$$\text{Expression : } \sqrt{361} + \sqrt{3.61} + \sqrt{0.0361}$$

$$\text{We know that } (19)^2 = 361$$

$$= 19 + 1.9 + 0.19 = 21.09$$

=> Ans - (D)

Question 15

Raja and Kundan together can build a wall in 20 days, Kundan and Mahesh build the same wall in 30 days and Mahesh and Raja can build the same wall in 24 days. In how many days can all the three complete the same wall while working together?

- A 18
- B 16
- C 20
- D 14

Answer: B

Explanation:

Let total work to be done = L.C.M.(20,30,24) = 120 units

Let efficiency of Raja, Kundan and Mahesh be x, y, z respectively.

Raja and Kundan together can build the wall in 20 days, $\Rightarrow x + y = \frac{120}{20} = 6$ units/day -----(i)

Similarly, $y + z = \frac{120}{30} = 4$ units/day -----(ii)

and $z + x = \frac{120}{24} = 5$ units/day -----(iii)

Adding equations (i), (ii) and (iii), we get :

$$\Rightarrow 2(x + y + z) = 6 + 4 + 5 = 15$$

$$\Rightarrow x + y + z = \frac{15}{2} = 7.5$$

\therefore Time taken by all of them = $\frac{120}{7.5} = 16$ days

\Rightarrow Ans - (B)

Question 16

A man starts moving from a place A and reaches the place B in 26 hours. He covers 1/3rd of the distance at the speed of 4 km/hr and covers the remaining distance at the speed of 5 km/hr. What is the distance (in km) between A and B?

- A 45
- B 80
- C 120
- D 90

Answer: C

Explanation:

Let the distance between A and B be = $3d$ km

Distance covered at the speed of 4 km/hr = $\frac{1}{3} \times 3d = d$ km

Thus, remaining distance covered at the speed of 5 km/hr = $(3d - d) = 2d$ km

Using, time = distance/speed

$$\Rightarrow \frac{d}{4} + \frac{2d}{5} = 26$$

$$\Rightarrow \frac{(5d+8d)}{20} = 26$$

$$\Rightarrow d = 26 \times \frac{20}{13}$$

$$\Rightarrow d = 2 \times 20 = 40$$

\therefore Distance between A and B (in km) = $3 \times 40 = 120$

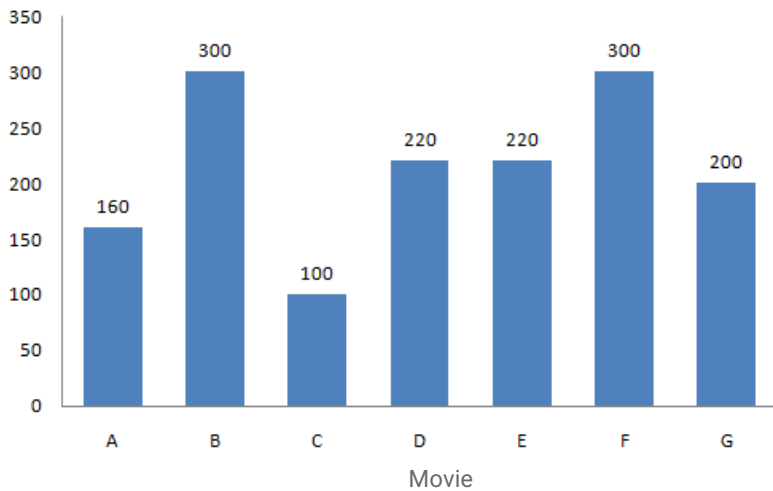
=> Ans - (C)

SSC CHSL Important Questions and Answers (Download PDF)

Instructions

The bar graph shows results of a survey. 1500 people exiting a multiplex were asked which movie they watched? Study the diagram and answer the following questions.

Number of viewers



Question 17

Which movie had least number of viewers?

- A C
- B F
- C A
- D G

Answer: A

Explanation:

Clearly, movie C had the least number of viewers = 100

=> Ans - (A)

Question 18

What is the ratio of viewers of movie B to Viewers of movie A?

- A 8: 15
- B 2: 1
- C 15: 8
- D 1: 2

Answer: C

Explanation:

Number of viewers of movie B = 300

Number of viewers of movie A = 160

$$\Rightarrow \text{Required ratio} = \frac{300}{160} = 15 : 8$$

\Rightarrow Ans - (C)

Question 19

Viewers of movie D were lesser than that of movie F by _____.

A 47.7%

B 80%

C 26.67%

D 60%

Answer: C

Explanation:

Number of viewers of movie D = 220

Number of viewers of movie F = 300

$$\Rightarrow \text{Required \%} = \frac{(300-220)}{300} \times 100$$

$$= \frac{80}{3} = 26.67\%$$

\Rightarrow Ans - (C)

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Question 20

If 30% of viewers of movies G and F left before intermission, how many viewers were left watching these two movies post intermission?

A 500

B 350

C 150

D 250

Answer: B

Explanation:

Number of viewers of movies G and F = 300 + 200 = 500

% of viewers that left = 30%

$$\Rightarrow \text{Number of viewers that were left watching these two movies post intermission} = \frac{(100-30)}{100} \times 500$$

$$= 70 \times 5 = 350$$

\Rightarrow Ans - (B)

Instructions

For the following questions answer them individually

Question 21

The area and the length of one of the diagonals of a rhombus is 54 cm² and 9 cm respectively. Find the length of its other diagonal (in cm).

- A 6
- B 24
- C 12
- D 18

Answer: C

Explanation:

Let length of one diagonal = d cm and length of other diagonal = 9 cm

$$\Rightarrow \text{Area of rhombus} = \frac{1}{2} \times d_1 d_2$$

$$\Rightarrow \frac{1}{2} \times 9 \times d = 54$$

$$\Rightarrow d = \frac{54 \times 2}{9}$$

$$\Rightarrow d = 12 \text{ cm}$$

\Rightarrow Ans - (C)

Question 22

Calculate the area (in cm^2) of a circle of radius 10.5 cm.

- A 693
- B 157.5
- C 315
- D 346.5

Answer: D

Explanation:

Radius of circle = $r = 10.5$ cm

$$\Rightarrow \text{Area} = \pi r^2$$

$$= \frac{22}{7} \times 10.5 \times 10.5$$

$$= 22 \times 1.5 \times 10.5 = 346.5 \text{ cm}^2$$

\Rightarrow Ans - (D)

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Question 23

Find the total surface area (in cm^2) of a hemisphere of diameter 42 cm.

- A 4158
- B 5782
- C 6321
- D 7782

Answer: A

Explanation:

Radius of hemisphere, $r = \frac{42}{2} = 21$ cm

Total surface area = $3\pi r^2$

$$= 3 \times \frac{22}{7} \times (21)^2$$

$$= 66 \times 3 \times 21 = 4158 \text{ cm}^2$$

=> Ans - (A)

Question 24

What is the value of $(\frac{1}{\sqrt{3}} + \sin 45^\circ)$?

A $\sqrt{3} + 2$

B $\frac{(\sqrt{2} + \sqrt{3})}{\sqrt{6}}$

C $\frac{(1 + \sqrt{6})}{\sqrt{3}}$

D $\frac{4 + \sqrt{3}}{2}$

Answer: B

Explanation:

Expression : $(\frac{1}{\sqrt{3}} + \sin 45^\circ)$

$$= \frac{1}{\sqrt{3}} + \frac{1}{\sqrt{2}}$$

$$= \frac{(\sqrt{2} + \sqrt{3})}{\sqrt{6}}$$

=> Ans - (B)

Question 25

In ΔXYZ measure of angle Y is 90° . If $\sin X = 4/5$, and $XY = 6$ cm, then what is the length (in cm) of side YZ?

A 10

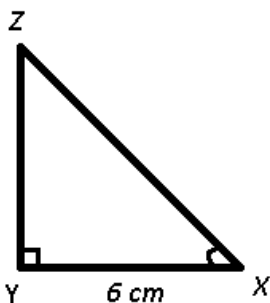
B 5

C 8

D 4

Answer: C

Explanation:



Given : $XY = 6$ cm and $\sin X = 4/5$ -----(i)

To find : $YZ = ?$

Solution : $\cos X = \sqrt{1 - \sin^2 X}$

$\Rightarrow \cos X = \sqrt{1 - \frac{16}{25}} = \sqrt{\frac{9}{25}} = \frac{3}{5}$ (ii)

Dividing equation (i) by (ii), $\Rightarrow \tan X = \frac{4}{3}$

In right $\triangle XYZ$,

$\Rightarrow \tan(X) = \frac{YZ}{XY}$

$\Rightarrow \frac{4}{3} = \frac{YZ}{6}$

$\Rightarrow YZ = \frac{4}{3} \times 6 = 8 \text{ cm}$

\Rightarrow Ans - (C)

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Reasoning

Instructions

For the following questions answer them individually

Question 26

In the following question, select the related word pair from the given alternatives.

Seconds: Time:: ? : ?

- A Angle: Pascal
- B Length: Metre
- C Area: Volume
- D Ohm: Resistance

Answer: D

Explanation:

Expression = Seconds: Time:: ? : ?

The first is the unit to measure second, i.e. seconds is the S.I. unit of time, similarly Ohm is the unit of Resistance.

\Rightarrow Ans - (D)

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Question 27

In the following question, select the related number from the given alternatives.

11: 16:: ? : ?

- A 14: 16
- B 15: 22
- C 7: 14
- D 13: 18

Answer: D

Explanation:

Expression = 11: 16:: ? : ?

The difference between the first and second number is 5. Among the options,

(A) : $16 - 14 = 2$

(B) : $22 - 15 = 7$

(C) : $14 - 7 = 7$

(D) : $18 - 13 = 5$

=> Ans - (D)

Question 28

In the following question, select the related letter pair from the given alternatives.

AUR : CXV :: ? : ?

A RFT : SGU

B GEM : IHQ

C HSO : GRN

D KGA : NIE

Answer: B

Explanation:

Expression = AUR : CXV :: ? : ?

The pattern followed is :

A	U	R
(+2)	(+3)	(+4)
C	H	V

Similar pattern is observed only in :

G	E	M
(+2)	(+3)	(+4)
I	H	Q

=> Ans - (B)

Question 29

In the following question, select the odd word from the given alternatives.

A Rat

B Cat

C Fish

D Cow

Answer: C

Explanation:

Rat, cat and cow live on the land while fish swims in the sea, hence it is the odd one out.

=> Ans - (C)

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Question 30

In the following question, four number pairs are given. The number on left side of (-) is related to the number of the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

- A 31 - 33
- B 33 - 35
- C 37 - 39
- D 35 - 39

Answer: D

Explanation:

The difference between each pair of numbers is 2.

But in the last option => $39 - 35 = 4$

Thus, (35 - 39) is the odd one out.

=> Ans - (D)

Question 31

In the following question, select the odd letter/letters from the given alternatives.

- A IR
- B LO
- C EV
- D AY

Answer: D

Explanation:

The pattern followed is that in each pair, the first letter is followed by the letter at its position, when the alphabets are reversed.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
↓	↓	↓	
Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A

I -> R, L -> O
E -> V, A -> Z

Thus, **AY** is the odd one out.

=> Ans - (D)

Question 32

Arrange the given words in the sequence in which they occur in the dictionary.

1. Opaque
2. Omission
3. Only
4. Onset
5. Omit

- A 51243
- B 25341

C 42513

D 21354

Answer: B

Explanation:

As per the order of dictionary,

= Omission -> Omit -> Only -> Onset -> Opaque

≡ 25341

=> Ans - (B)

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Question 33

In the following question, select the missing number from the given series.

63, 56, 50, 43, 37, 30, ?

A 23

B 24

C 29

D 21

Answer: B

Explanation:

'7' and '6' are alternatively subtracted.

$$63 - 7 = 56$$

$$56 - 6 = 50$$

$$50 - 7 = 43$$

$$43 - 6 = 37$$

$$37 - 7 = 30$$

$$30 - 6 = 24$$

=> Ans - (B)

Question 34

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

S, Q, N, J, ?

A D

B E

C F

D G

Answer: B

Explanation:

Series : S, Q, N, J, ?

The pattern followed is :

S (-2 letters) = Q (-3 letters) = N (-4 letters) = J (-5 letters) = E

=> Ans - (B)

Question 35

Weight of C is twice the weight of M. Weight of M is $\frac{1}{9}$ of the weight of R. Weight of R is $\frac{5}{2}$ of the weight of K. Weight of K is $\frac{1}{3}$ of the weight of G. Who is the second lightest?

A C

B M

C K

D G

Answer: A

Explanation:

Let weight of G = $3x$ kg

=> K's weight = $\frac{1}{3} \times 3x = x$ kg

=> R's weight = $\frac{5}{2} \times x = 2.5x$ kg

=> M's weight = $\frac{1}{9} \times 2.5x = \frac{5x}{18}$ kg

=> C's weight = $2 \times \frac{5x}{18} = \frac{5x}{9}$ kg

∴ C is the second lightest.

=> Ans - (A)

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Question 36

From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

Transaction

A Ran

B Action

C Train

D Role

Answer: D

Explanation:

The word TRANSACTION does not contain any 'O', thus the term **Role** cannot be formed.

=> Ans - (D)

Question 37

In a certain code language, "MAKER" is written as "PDNHU". How is "TOOLS" written in that code language?

A VTRPM

B WRROV

C MLQGP

D PTNLR

Answer: B

Explanation:

"MAKER" is written as "PDNHU"

The pattern followed is :

M	A	K	E	R
(+3)	(+3)	(+3)	(+3)	(+3)
P	D	N	H	U

Similarly, for TOOLS :

T	O	O	L	S
(+3)	(+3)	(+3)	(+3)	(+3)
W	R	R	O	V

=> Ans - (B)

Question 38

In a certain code language, '-' represents 'x', '÷' represents '+', '+' represents '÷' and 'x' represents '-'. Find out the answer to the following question.

$$5 - 6 + 30 \times 8 \div 16 = ?$$

A 37

B 24

C 9

D 36

Answer: C

Explanation:

$$\text{Expression : } 5 - 6 + 30 \times 8 \div 16 = ?$$

$$\equiv 5 \times 6 \div 30 - 8 + 16$$

$$= \frac{30}{30} + 8$$

$$= 1 + 8 = 9$$

=> Ans - (C)

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Question 39

The following equation is incorrect. Which two signs should be interchanged to correct the equation?

$$18 + 26 - 25 \times 10 \div 5 = 42$$

A - and +

B ÷ and x

C x and -

D ÷ and -

Answer: A

Explanation:

Expression : $18 + 26 - 25 \times 10 \div 5 = 42$

(A) : - and +

$$\equiv 18 - 26 + 25 \times 10 \div 5 = 42$$

$$\text{L.H.S.} = -8 + 25 \times 2$$

$$= -8 + 50 = 42 = \text{R.H.S.}$$

=> Ans - (A)

Question 40

If $1\Delta-5 = 5$, $4\Delta7 = -28$ and $-1\Delta-3 = -3$, then find the value of $8\Delta-8 = ?$

A 64

B -48

C 45

D 74

Answer: A

Explanation:

Given : $1\Delta-5 = 5$, $4\Delta7 = -28$ and $-1\Delta-3 = -3$

If we replace ' Δ ' with 'x' and also multiply the final result with '-1', then we will get the desired result.

$$\text{Eg. :- } -1(1 \times -5) = 5$$

$$\text{and } -1(4 \times 7) = -28 \text{ and } -1(-1 \times -3) = -3$$

$$\text{Similarly, } -1(8 \times -8) = 64$$

=> Ans - (A)

Question 41

Which of the following terms follows the trend of the given list?

YXYXYXZYX, YXYXYZXYX, YXYXZYXYX, YXZXYXYX, YXZYXYXYX, _____

A ZYXYXYXYX

B YXYXYXZYX

C YZXYXYXYX

D YXYXYZXYX

Answer: C

Explanation:

Expression : XYXYXYZXYX, YXYXYZXYX, YXYXZYXYX, YXZXYXYX, YXZYXYXYX, _____

The pattern followed is that in each term there are 4 combinations of 'YX' and in each term, the position of 'Z' is shifting one place to the left starting from third last position.

Thus, in the missing term, the second term will be 'Z' = YZXYXYXYX

=> Ans - (C)

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Question 42

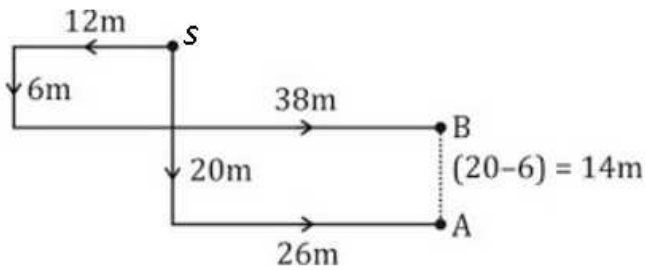
Two rugby players start running from the same place on the pitch. Player A runs 20 m South, then turns to his left and runs 26 m. In the meanwhile Player B runs 12 m West, then he runs 6 m South, the he turns to his left and runs 38 m. Where is Player A with respect to Player B?

- A 26 m South
- B 14 m South
- C 14 m North
- D 26 m North

Answer: B

Explanation:

Let the two rugby players start running from the same place S on the pitch. Player A runs 20 m South, then turns to his left and runs eastwards for 26 m. In the meanwhile Player B runs 12 m West, then he turns left and runs 6 m South, the he turns to his left and runs 38 m.



∴ Player A is 14 m south with respect to Player B.

⇒ Ans - (B)

Question 43

In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: Some notes are coins

Statement II: All notes are currency

Conclusion I: No coins are currency

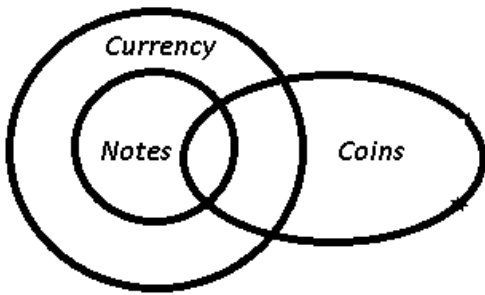
Conclusion II: Some currency are coins

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

Answer: B

Explanation:

The venn diagram for above statements is :



Conclusion I: No coins are currency = false

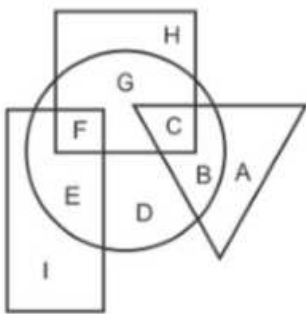
Conclusion II: Some currency are coins = true

Thus, only conclusion II follows.

=> Ans - (B)

Question 44

In the following figure, rectangle represents Fashion designers, circle represents Lyricists, triangle represents Comedians and square represents Americans. Which set of letters represents Fashion designers who are lyricists?



A EI

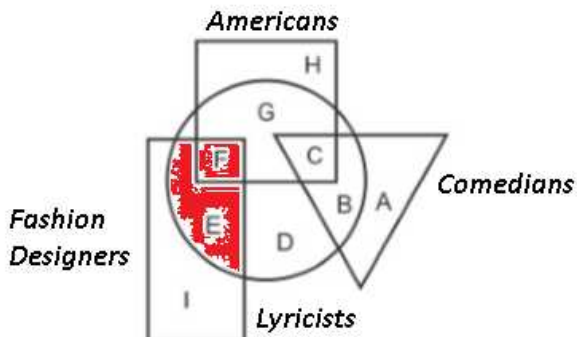
B FE

C GH

D FG

Answer: B

Explanation:



Fashion designers who are lyricists are represented by = FE

=> Ans - (B)

Question 45

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
CAL, AWF, YSZ, WOT, ?

- A UJO
- B VKP
- C UKN
- D VJP

Answer: C

Explanation:

Series : CAL, AWF, YSZ, WOT, ?

The pattern followed in each letter of the terms is :

1st letter : C (-2 letters) = A (-2 letters) = Y (-2 letters) = W (-2 letters) = U

2nd letter : A (-4 letters) = W (-4 letters) = S (-4 letters) = O (-4 letters) = K

3rd letter : L (-6 letters) = F (-6 letters) = Z (-6 letters) = T (-6 letters) = N

Thus, missing term = **UKN**

=> Ans - (C)

Question 46

In the following question, select the missing number from the given series.
470, 465, 460, 455, ?, 445

- A 450
- B 448
- C 440
- D 452

Answer: A

Explanation:

'5' is subtracted from all the numbers.

$$470 - 5 = 465$$

$$465 - 5 = 460$$

$$460 - 5 = 455$$

$$455 - 5 = \mathbf{450}$$

$$450 - 5 = 445$$

=> Ans - (A)

Question 47

In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

- A (104, 101, 96)
- B (109, 106, 101)

C (97, 94, 89)

D (121, 118, 111)

Answer: D

Explanation:

The numbers are of the form : $(x, x - 3, x - 8)$

But in the last option, we have $= 121 - 8 = 113 \neq 111$

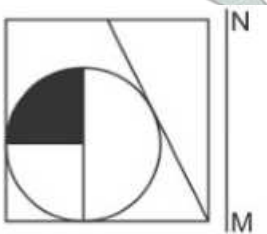
Thus, (121, 118, 111) is the odd one out.

=> Ans - (D)

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Question 48

If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



Answer: D

Explanation:

A vertical mirror is placed, so the object on the left will appear right in reverse position and vice-versa.

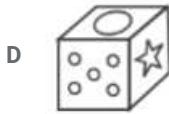
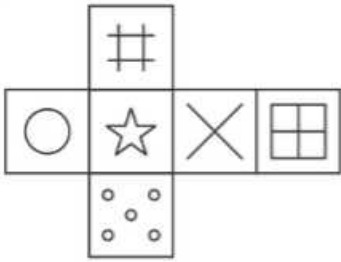
So the circle at the bottom left will be reversed and will now appear at bottom right.

Also, in the question figure, the slanted line is originating from bottom right corner, hence it will appear at bottom left side, hence fourth option is the right image.

=> Ans - (D)

Question 49

Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Answer: C

Explanation:

When we fold the given figure, the circle with a star sign will become the base of the cube and the side with window sign will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



Since, the opposite sides cannot be adjacent in the cube, thus the cube in the third option is not possible.

=> Ans - (C)

Question 50

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix:I are numbered from 0 to 4 and that of Matrix:II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'H' can be represented by 32, 41 etc and 'N' can be represented by 98, 85 etc. Similarly, you have to identify the set for the word 'IOTA'.

Matrix - I					
	0	1	2	3	4
0	K	I	I	A	E
1	G	A	E	E	A
2	F	B	J	E	D
3	F	E	H	K	A
4	L	H	B	I	J

Matrix - II					
	5	6	7	8	9
5	T	P	Y	P	Q
6	W	V	O	V	Q
7	Q	Z	V	Q	Q
8	N	T	P	O	R
9	X	Z	P	N	S

- A 42,56,11,85
- B 22,68,22,57
- C 43,67,55,34
- D 23,76,14,95

Answer: C

Explanation:

- (A) : 42,56,11,85 = HPAN
 - (B) : 22,68,22,57 = JVJY
 - (C) : 43,67,55,34 = **IOTA**
 - (D) : 23,76,14,95 = EZAX
- => Ans - (C)

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English

Instructions

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

Question 51

I seen (a)/ that it (b)/ is getting dark. (c)/ No error (d)

- A I seen
- B that it
- C is getting dark
- D No error

Answer: A

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Question 52

The long:term capital gains on listed securities (a)/ and the dividend tax on equity mutual funds are the right steps (b)/ to generate resources required for drive demand in rural India. (c)/ No error (d)

- A The long:term capital gains on listed securities
- B and the dividend tax on equity mutual funds are the right steps
- C to generate resources required for drive demand in rural India
- D No error

Answer: C

Instructions

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

Question 53

Sita felt obligated to _____ Geeta.

- A cry
- B decide
- C give
- D inform

Answer: D

Question 54

We _____ peace in our fast:escalating technological careers and lifestyle without creating that beautiful notion of love:based emotions.

- A seek
- B bleak
- C meek
- D geek

Answer: A

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Instructions

In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Question 55

Grudging

- A Envious
- B Favouring

- C Generous
- D Contented

Answer: A

Question 56

Allay

- A Relieve
- B Understand
- C Increase
- D Annoy

Answer: A

Instructions

In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Question 57

Grumpy

- A Cross
- B Bad tempered
- C Irritable
- D Pleasant

Answer: D

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Question 58

Celestial

- A Heavenly
- B Blessed
- C Hellish
- D Holy

Answer: C

Instructions

For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.

The existence of

P: can be traced back to

Q: mammals on the earth

R: at least the Triassic time

- A QRP
- B PRQ
- C PQR
- D QPR

Answer: D

Question 60

A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice. Why did your mother write such a book?

- A Why was such a book written by your mother?
- B Why is such a book written by your mother?
- C Why your mother wrote such a book?
- D Why was such a book wrote by your mother?

Answer: A

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Question 61

A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech. He said, "The dog died in the night."

- A He inform about the dog's death.
- B He says dog died in the night.
- C The dog had died in the night, he said.
- D He said that the dog had died in the night.

Answer: D

Question 62

In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

- A Culleague
- B Coleague
- C Colleague
- D Colleague

Answer: C

Instructions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given

blank out of the four alternatives.

Technical skill _____ to the ability and knowledge to use the pedagogy, tools and techniques involved in the teaching and research of a specific subject. Ability in programming or software designing and operating a computer is, _____ instance, a technical skill. There are two things a teacher should understand _____ transformational technical skills. In the first place, he must know _____ skill and what level of skill should be applied on a particular student. He should be _____ enough with their potential to ask discerning questions. Secondly, a teacher must understand the role of each event organised and the transformational skill applied, and the inter:relationships between the events and skills.

Question 63

Technical skill _____ to the ability

- A refers
- B refer
- C reference
- D referred

Answer: A

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Question 64

a computer is, _____ instance, a technical skill.

- A of
- B from
- C at
- D for

Answer: D

Question 65

understand _____ transformational technical skills.

- A about
- B at
- C among
- D upon

Answer: A

Question 66

he must know _____ skill and what level

- A when
- B which
- C while

D who

Answer: B

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Question 67

He should be _____ enough with their

- A familiar
- B familiarly
- C familiarness
- D familiarity

Answer: A

Instructions

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Question 68

Ask for trouble

- A Act in a way that is likely to incur problems or difficulties.
- B Be the self appointed guardian of your neighbourhood.
- C A clumsy person who keeps making mistakes.
- D A person who has no work is bound to create trouble for others.

Answer: A

Question 69

Drive someone up the wall

- A To help someone achieve success.
- B To overcome an obstacle by going over it.
- C To close someone's path of escape.
- D Make someone very irritated or angry.

Answer: D

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Instructions

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Question 70

Become liquid, typically during decomposition

- A Deliquesce
- B Petrify
- C Cohere
- D Anneal

Answer: A

Question 71

Praise highly in speech or writing

- A Chide
- B Eulogise
- C Chastise
- D Reprimand

Answer: B

Instructions

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

Question 72

Humongous changes (has occurred) in the last two decades.

- A have occurred
- B have occur
- C have occurring
- D no improvement

Answer: A

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Question 73

The joy of (cook) a meal with freshly grown herbs was boundless.

- A cooked
- B cooking
- C cooks
- D no improvement

Answer: B

Instructions

For the following questions answer them individually

Question 74

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

So he decided he

- A: people, hopefully none
- B: better place with fewer
- C: would go far away, to a

- A CBA
- B CAB
- C BCA
- D BAC

Answer: A

Question 75

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

- A impoverish
- B impoverish
- C impoverish
- D impoverish

Answer: C

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General Awareness

Instructions

For the following questions answer them individually

Question 76

Market imperfections of a country are reflected in_____.

- A price rigidity
- B factor immobility
- C lack of specialization
- D All options are correct.

Answer: D

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Question 77

SEBI is _____.

- A Constitutional body
- B advisory body
- C statutory body
- D non:statutory body

Answer: C

Question 78

After which of the following centuries, did the practice of donating land in South India go a long way?

- A Fifth century
- B Sixth century
- C Eighth century
- D Ninth century

Answer: C

Question 79

Which of the following languages has been used by Surdas in his writings?

- A Awadhi
- B Khariboli
- C Braj
- D Bundeli

Answer: C

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Question 80

What is called the maximum distance from the Sun in a planet in its orbit?

- A Perihelion
- B Aphelion
- C Apogee
- D Perigee

Answer: B

Question 81

The line of Cancer does NOT pass through which of the following state of India?

- A Odisha

- B Gujarat
- C Rajasthan
- D West Bengal

Answer: A

Question 82

What was the real name of Gautam Buddha?

- A Siddhartha
- B Mahendra
- C Shree Dutt
- D Vishal Dutt

Answer: A

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Question 83

Which country launched the world's largest amphibious aircraft on December 24, 2017?

- A USA
- B China
- C Japan
- D Germany

Answer: B

Question 84

Which of the following prize is given for literary work?

- A Arjuna Award
- B Ashoka Chakra
- C Vyas Samman
- D Gita Chopra Award

Answer: C

Question 85

Officially what is the conventional long name of Sri Lanka?

- A Democratic Socialist Republic of Sri Lanka
- B Socialist Republic of Sri Lanka

C Republic of Sri Lanka

D No option is correct.

Answer: A

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Question 86

Which of the following is man made fibre ?

A Cotton

B Wool

C Silk

D Nylon

Answer: D

Question 87

Which of the following statement is INCORRECT regarding Sodium?

A Sodium reacts vigorously with oxygen and water.

B A lot of heat is generated when sodium reacts with water and oxygen.

C It is stored in kerosene.

D It is a non-metal.

Answer: D

Question 88

_____ is a constitutional body in India.

A Central Information Commission

B Lokpal and Lokayukta

C National Development Council

D Election Commission

Answer: D

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Question 89

Which Constitutional Amendment Act added Part IX:A 'The Municipalities' to Indian Constitution?

A 74th Constitutional Amendment Act

B 42nd Constitutional Amendment Act

C 39th Constitutional Amendment Act

D 10th Constitutional Amendment Act

Answer: A

Question 90

Photosynthesis fulfills which of the following requirements of the autotrophic organisms?

- I. Carbon
- II. Water
- III. Energy

A Only I

B Only III

C I and III

D All I, II and III

Answer: C

Question 91

Which among the following difference between aerobic and anaerobic respiration is INCORRECT?

- A Aerobic respiration takes place in presence of oxygen - Anaerobic respiration takes place in the absence of oxygen
- B In Aerobic respiration pyruvate is broken down into ethanol and carbon dioxide - In Anaerobic respiration pyruvate is broken down into carbon dioxide and water
- C In Aerobic respiration more energy is released - In Anaerobic respiration less energy is released
- D Aerobic respiration takes place in mitochondria- Anaerobic respiration takes place in yeast

Answer: B

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Question 92

What is the total outlay (in Rs crore) pegged for "Pradhan Mantri Sahaj Bijli Har Ghar Yojna" by the Indian Government?

A 15320

B 16320

C 17320

D 18320

Answer: B

Question 93

The Scientists from China have successfully cloned which animal for the first time?

- A Human
- B Dog
- C Monkey
- D Sheep

Answer: C

Question 94

What was the Gross Domestic Product (GDP) for India in 2016:17 Financial Year?

- A 6.10%
- B 7.10%
- C 8.10%
- D 6.70%

Answer: B

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Question 95

On 10 April 2017, Lok Sabha Passed the Motor Vehicles Act (Amendment) Bill, 2016. Under the new provisions, a fund named 'MVA' will be constituted. What does 'A' stand for in 'MVA'?

- A Amendment
- B Approval
- C Accident
- D Aspiration

Answer: C

Question 96

Find the acceleration ($\text{in } \frac{\text{m}}{\text{s}^2}$) of a body which accelerates from 25 m/s to 30 m/s in 10 seconds.

- A 5.5
- B 1
- C 11
- D 0.5

Answer: D

Question 97

1 m/s equals _____ km/hr.

- A 5/16

- B 16/5
- C 18/5
- D 5/18

Answer: C

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Question 98

_____ bears have white fur so that they are not easily visible in the snowy background.

- A Sloth
- B Asian
- C Brown
- D Polar

Answer: D

Question 99

Which of the statements given below are correct?

- A) In 2017, Gary Cahill captained the Premier League team Arsenal.
- B) In 2018 IPL auctions, Kolkata Knight Riders retained Sunil Narine.
- C) Roger Federer won the Tennis 2017 Wimbledon Championships Men's Singles.

- A Only B
- B B and C
- C A, B and C
- D None of these

Answer: B

Question 100

In Microsoft Word, under character formatting _____ decides the appearance of our characters.

- A Size
- B Underline
- C Effects
- D Font

Answer: D

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