



SSC CHSL 7 March 2018 Morning Shift

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Instructions

For the following questions answer them individually

Question 1

Convert the 0.0068 in to vulgar fraction:

A $\frac{7}{1250}$

B $\frac{17}{2500}$

C $\frac{17}{5000}$

D $\frac{7}{1750}$

Answer: B

Explanation:

Integer = 0.0068

$$= \frac{68}{10000}$$

Dividing numerator and denominator by 4,

$$= \frac{17}{2500}$$

=> Ans - (B)

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Question 2

How many 3 digit numbers are completely divided by 4.

A 225

B 224

C 223

D 222

Answer: A

Explanation:

3 digit numbers that are divided by 4 are : 100,104,108,.....,992,996

Above series is an A.P. with first term, $a = 100$, common difference, $d = 4$ and last term, $l = 996$

Thus, n^{th} term of an A.P., $A_n = a + (n - 1)d$

$$\Rightarrow 100 + (n - 1)4 = 996$$

$$\Rightarrow (n - 1) \times 4 = 996 - 100 = 896$$

$$\Rightarrow (n - 1) = \frac{896}{4} = 224$$

$$\Rightarrow n = 224 + 1 = 225$$

\therefore There are **225** three digit numbers that are divided by 4.

=> Ans - (A)

Question 3

There are two buckets, smaller bucket can hold only $\frac{3}{5}$ th of the water as compared to the larger bucket. If 6,000 buckets of larger capacity are needed to fill a pond. Then how many smaller capacity buckets are needed to fill the same pond?

- A 8000
- B 10000
- C 12000
- D 15000

Answer: B

Explanation:

Let capacity of small bucket = 3 litres and that of larger bucket = 5 litres

Number of larger buckets required to fill the pond = 6000

=> Quantity of pond = $5 \times 6000 = 30,000$ litres

\therefore Number of small buckets required = $\frac{30,000}{3} = 10,000$

=> Ans - (B)

Question 4

What is the value of the expression $a^3 - 5 + \frac{128}{16a}$, when $a = 2$?

- A 2
- B 5
- C 7
- D 8

Answer: C

Explanation:

Given, $a = 2$

$\therefore a^3 - 5 + \frac{128}{16a} = (2)^3 - 5 + \frac{128}{16(2)} = 8 - 5 + 4 = 7$

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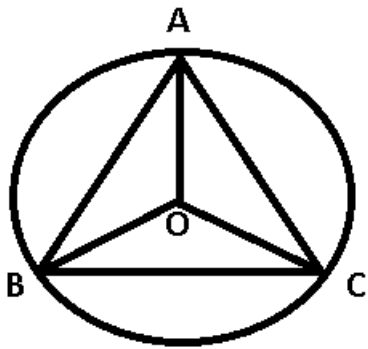
Question 5

The height of the equilateral triangle is 9 cm. What is the radius (in cm) of the circle circumscribing the three vertices?

- A 3
- B 6
- C 9
- D 12

Answer: B

Explanation:



ABC is an equilateral triangle with height = median = 9 cm

Now, O is the circumcentre of the triangle and it divides the median in the ratio 2:1

$$\Rightarrow AO = \frac{2}{2+1} \times 9$$

$$\Rightarrow AO = \frac{2}{3} \times 9$$

$$\Rightarrow AO = 2 \times 3 = 6 \text{ cm}$$

\Rightarrow Ans - (B)

Question 6

The area of a circular cricket ground is 24.64 hectares. Find the cost of making rope boundary at the rate of Rs. 5.40 per metre.

A Rs. 9,600

B Rs. 9,504

C Rs. 9,802

D Rs. 9,876

Answer: B

Explanation:

1 hectare = 10,000 sq. m

Let radius of ground = r m

\Rightarrow Area of ground = 24.64 hectares = 246400 sq. m

$$\Rightarrow \pi r^2 = 246400$$

$$\Rightarrow \frac{22}{7} \times r^2 = 246400$$

$$\Rightarrow r^2 = 246400 \times \frac{7}{22} = 78400$$

$$\Rightarrow r = \sqrt{78400} = 280 \text{ m}$$

Now, circumference = quantity of rope required = $2\pi r$

$$= 2 \times \frac{22}{7} \times 280 = 1760 \text{ m}$$

$$\therefore \text{Total cost} = 1760 \times 5.40 = \text{Rs. } 9,504$$

\Rightarrow Ans - (B)

Question 7

90% of X = 40% of Y and Y = a% of X. What is the value of a?

A 225

B 125

C 2.25

D 1.25

Answer: A

Explanation:

Given : 90% of $X = 40\%$ of Y

$$\Rightarrow 90X = 40Y$$

$$\Rightarrow \frac{Y}{X} = \frac{9}{4} \text{-----(i)}$$

$\therefore Y = a\%$ of X

$$\Rightarrow \frac{Y}{X} = \frac{a}{100}$$

$$\Rightarrow a = \frac{9}{4} \times 100 = 225$$

\Rightarrow Ans - (A)

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Question 8

The sum of three numbers is 162. If the ratio of the first number to the second number is 5: 7 and that of the second number to the third number is 5: 3, then what is the second number?

A 35

B 70

C 80

D 40

Answer: B

Explanation:

Let the numbers be x, y, z

$$\text{Thus, } x : y = 5 : 7 \text{-----(i)}$$

$$\text{and } y : z = 5 : 3 \text{-----(ii)}$$

Multiplying equation (i) by 5 and equation (ii) by 7

$$\Rightarrow x : y : z = 25 : 35 : 21$$

$$\text{Let } x = 25k, y = 35k \text{ and } z = 21k$$

$$\Rightarrow \text{Sum of three numbers} = 25k + 35k + 21k = 81k = 162$$

$$\Rightarrow k = \frac{162}{81} = 2$$

$$\therefore \text{Second number} = 35 \times 2 = 70$$

\Rightarrow Ans - (B)

Question 9

S, T and U started a business by investing Rs 4200, Rs 6300 and Rs 8400 respectively. S left the business after 3 months, T left 6 months after the business had started and U remained in the business till one year. At the end of one year the total profit is Rs 6000. What is the U's share (in Rs) in the profit ?

A 4200

B 3200

C 4000

D 3600

Answer: C

Explanation:

Amount invested by S, T and U = Rs. 4200, Rs. 6300 and Rs. 8400

=> Ratio of amount = $S : T : U = 2 : 3 : 4$

Also, S invested for 3 months, T for 6 months and U for 12 months

=> Ratio of profits of S, T and U = $(2 \times 3) : (3 \times 6) : (4 \times 12)$

= $1 : 3 : 8$

Total profit = Rs. 6000

∴ U's share = $\frac{8}{1+3+8} \times 6000$

= $8 \times 500 = \text{Rs. } 4000$

=> Ans - (C)

Question 10

The average of 6 consecutive integers is $15/2$. What is the average of last three integers?

A 8

B 9

C $17/2$

D 7

Answer: B

Explanation:

Let the 6 consecutive integers be = $(x), (x + 1), (x + 2), (x + 3), (x + 4)$ and $(x + 5)$

Sum of integers = $(x) + (x + 1) + (x + 2) + (x + 3) + (x + 4) + (x + 5) = \frac{15}{2} \times 6$

=> $6x + 15 = 45$

=> $6x = 45 - 15 = 30$

=> $x = \frac{30}{6} = 5$

∴ Average of last three integers = $\frac{(5+3)+(5+4)+(5+5)}{3}$

= $\frac{27}{3} = 9$

=> Ans - (B)

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Question 11

Simple interest on a sum for six months at 5% per annum is Rs 65.5. What is the value (in Rs) of sum?

A 2600

B 2620

C 1320

D 2880

Answer: B

Explanation:

Let principal amount = Rs. x

Rate of interest = 5% and time period = $\frac{6}{12} = \frac{1}{2}$ years

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

$$\Rightarrow \frac{x \times 5 \times 1}{2 \times 100} = 65.5$$

$$\Rightarrow \frac{x}{40} = 65.5$$

$$\Rightarrow x = 40 \times 65.5 = \text{Rs. } 2620$$

=> Ans - (B)

Question 12

The difference between cost price and selling price is Rs 221. If profit percentage is 17%, then what is the selling price (in Rs)?

A 1079

B 1300

C 1521

D 1724

Answer: C

Explanation:

Difference between cost price and selling price = Profit = Rs. 221

$$\text{Profit \%} = \frac{\text{profit}}{C.P.} \times 100$$

$$\Rightarrow \frac{221}{CP} \times 100 = 17$$

$$\Rightarrow CP = \frac{22100}{17} = \text{Rs. } 1300$$

$$\therefore \text{Selling price} = \text{Rs. } (1300 + 221) = \text{Rs. } 1521$$

=> Ans - (C)

Question 13

Marked price of an article is Rs 3600 and selling price is Rs 3132. What is the discount percentage?

A 12%

B 13%

C 17.21%

D 14.94%

Answer: B

Explanation:

Marked price = Rs. 3600

Selling price = Rs. 3132

$$\Rightarrow \text{Discount \%} = \frac{(3600 - 3132)}{3600} \times 100$$

$$= \frac{468}{36} = 13\%$$

=> Ans - (B)

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Question 14

What is that least number that must be added to the product 684×686 to make it a perfect square?

- A 685
- B 1
- C 684
- D 686

Answer: B

Explanation:

$$\text{Number} = 684 \times 686$$

$$= 684 \times (684 + 2)$$

$$= (684)^2 + 2(684)$$

$$\text{Now, to make it a perfect square,} = (684)^2 + 2(684)(1) + (1)^2$$

$$= (684 + 1)^2 = (685)^2$$

\therefore 1 is added to make it a perfect square.

=> Ans - (B)

Question 15

Sumit and Amit undertook a work for Rs 7200. Sumit alone can do the work in 5 days and Amit alone can do the work in 4 days. If they work together, then what will be the difference (in Rs.) in the amount they receive?

- A 800
- B 1600
- C 1200
- D 1400

Answer: A

Explanation:

Time taken by Sumit = 5 days and by Amit = 4 days

$$\text{Efficiency} \propto \frac{1}{\text{time}}$$

=> Ratio of efficiency of Sumit and Amit = 4 : 5

$$\therefore \text{Difference in amount that they will get} = \frac{(5-4)}{(5+4)} \times 7200$$

$$= \frac{7200}{9} = \text{Rs. } 800$$

=> Ans - (A)

Question 16

A man covered a certain distance by a train running at the speed of 50 km/hr and covers the same distance back by walking at the speed of 5 km/hr. If the whole journey took 5 hours 30 minutes, then what was the distance (in km) of one side?

- A 30
- B 25
- C 20
- D 18

Answer: B

Explanation:

Let total distance covered (both sides) = $2d$ km

Speed of train = 50 km/hr and walking speed = 5 km/hr

Using, time = distance/speed

$$\Rightarrow \frac{d}{50} + \frac{d}{5} = 5.5$$

$$\Rightarrow \frac{11d}{50} = 5.5$$

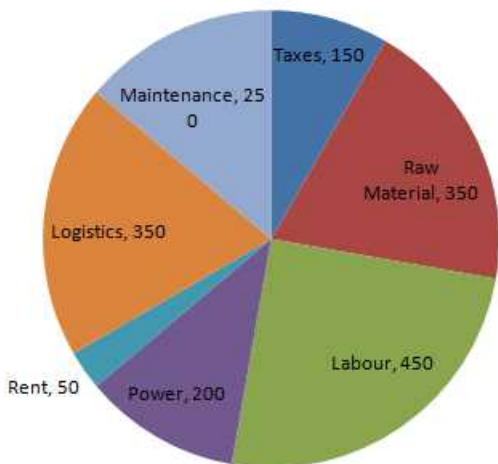
$$\Rightarrow d = 5.5 \times \frac{50}{11} = 25 \text{ km}$$

\Rightarrow Ans - (B)

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Instructions

The pie chart shows the breakup of expenditure of a manufacturing company for the year 2017. Study the diagram and answer the following questions.



Question 17

The second highest expenditure is for which item ?

- A Labour
- B Power
- C Raw material
- D Rent

Answer: C

Explanation:

The second highest expenditure is for **Raw material** and Logistics = Rs. 350 lakhs

=> Ans - (C)

Question 18

What is the total expenditure (in Rs lakhs) ?

- A 900
- B 1800
- C 2000
- D 1000

Answer: B

Explanation:

Total expenditure (in Rs lakhs)

$$= 150 + 350 + 450 + 200 + 50 + 350 + 250$$

$$= 1800$$

=> Ans - (B)

Question 19

The measure of the central angle of the sector representing Taxes is _____ degrees.

- A 40
- B 20
- C 60
- D 30

Answer: D

Explanation:

Expenditure in taxes (in Rs lakhs) = 150

Total expenditure (in Rs lakhs)

$$= 150 + 350 + 450 + 200 + 50 + 350 + 250 = 1800$$

$$\Rightarrow \text{Required central angle} = \frac{150}{1800} \times 360^\circ$$

$$= \frac{150}{5} = 30^\circ$$

=> Ans - (D)

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Question 20

Expenditure on Labour and Raw material constitute what percent of total expenditure?

- A 33.30%
- B 44.44%
- C 40%
- D 30%

Answer: B

Explanation:

Expenditure on Labour and Raw material (in Rs lakhs) = $450 + 350 = 800$

Total expenditure (in Rs lakhs)

$$= 150 + 350 + 450 + 200 + 50 + 350 + 250 = 1800$$

$$\Rightarrow \text{Required \%} = \frac{800}{1800} \times 100$$

$$= \frac{400}{9} = 44.44\%$$

\Rightarrow Ans - (B)

Instructions

For the following questions answer them individually

Question 21

The length of the diagonal and the breadth of a rectangle are 25 cm and 7 cm respectively. Find its perimeter (in cm).

A 124

B 41

C 82

D 62

Answer: D

Explanation:

Let length of rectangle = l cm and breadth = 7 cm

Also, diagonal = $d = 25$ cm

$$\Rightarrow l^2 = d^2 - b^2$$

$$\Rightarrow l = \sqrt{(25)^2 - (7)^2}$$

$$\Rightarrow l = \sqrt{625 - 49} = \sqrt{576}$$

$$\Rightarrow l = 24 \text{ cm}$$

$$\therefore \text{Perimeter} = 2(l + b)$$

$$= 2 \times (24 + 7) = 62 \text{ cm}$$

\Rightarrow Ans - (D)

Question 22

If a regular polygon has 6 sides then the measure of its interior angle is greater than the measure of its exterior angle by how many degrees?

A 90°

B 100°

C 60°

D 108°

Answer: C

Explanation:

Sum of all interior angles of regular polygon with n sides = $(n - 2) \times 180^\circ$

$$\Rightarrow \text{Sum of interior angles of a regular hexagon} = (6 - 2) \times 180^\circ = 720^\circ$$

Also, sum of exterior angle of an polygon = 360°

$$\therefore \text{Required difference} = \frac{(720-360)}{6}$$
$$= \frac{360}{6} = 60^\circ$$

=> Ans - (C)

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Question 23

The curved surface area and the slant height of a right circular cone are 99 cm^2 and 9 cm respectively. Find its diameter (in cm).

- A 3.5
- B 7
- C 14
- D 10.5

Answer: B

Explanation:

Let radius of cone = $r \text{ cm}$ and slant height of cone = $l = 9 \text{ cm}$

Curved surface area of cone = $\pi r l$

$$\Rightarrow \frac{22}{7} \times r \times 9 = 99$$

$$\Rightarrow r = \frac{99}{9} \times \frac{7}{22}$$

$$\Rightarrow r = \frac{7}{2} = 3.5 \text{ cm}$$

\therefore Diameter of cone = $2 \times 3.5 = 7 \text{ cm}$

=> Ans - (B)

Question 24

What is the value of $\left(\frac{1}{3} - \cot 60^\circ\right)$?

- A $\frac{(2-\sqrt{3})}{2\sqrt{3}}$
- B $\frac{(\sqrt{2}-1)}{\sqrt{2}}$
- C $\frac{(1-\sqrt{3})}{3}$
- D $\frac{(\sqrt{3}-4)}{2\sqrt{3}}$

Answer: C

Explanation:

Expression : $\frac{1}{3} - \cot(60^\circ)$

$$= \frac{1}{3} - \frac{1}{\sqrt{3}}$$

$$= \frac{1}{3} - \frac{\sqrt{3}}{3} = \frac{(1-\sqrt{3})}{3}$$

=> Ans - (C)

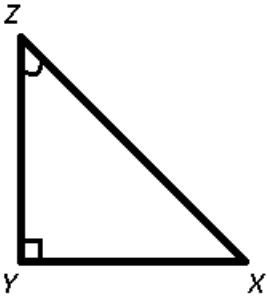
Question 25

$\triangle XYZ$ is right angled at Y. If $\tan X = 15/8$, then what is the value of $\sin Z$?

- A 15/17
- B 17/8
- C 17/15
- D 8/17

Answer: D

Explanation:



Given : $\tan X = \frac{15}{8}$

Also, $\tan X = \frac{YZ}{XY} = \frac{15}{8}$

Let $XY = 8$ cm and $YZ = 15$ cm

Thus, in $\triangle XYZ$, $\Rightarrow (XZ)^2 = (XY)^2 + (YZ)^2$

$\Rightarrow (XZ)^2 = (8)^2 + (15)^2$

$\Rightarrow (XZ)^2 = 64 + 225 = 289$

$\Rightarrow XZ = \sqrt{289} = 17$ cm

To find : $\sin Z = \frac{XY}{XZ}$

$= \frac{8}{17}$

\Rightarrow Ans - (D)

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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.

Rectangle: Four:: ? : ?

- A Square: Seven
- B Polygon: Two
- C Circle: Six
- D Triangle: Three

Answer: D

Explanation:

Expression = Rectangle: Four:: ? : ?

The first is the polygon and the second is number of its sides, i.e. a rectangle has 4 sides, similarly a triangle has 3 sides.

=> Ans - (D)

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Question 27

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

13: 17:: ? : ?

A 17: 24

B 19: 23

C 19: 27

D 21: 23

Answer: B

Explanation:

Expression = 13: 17:: ? : ?

The difference between the first and second number is 4. Among the options,

(A) : $24 - 17 = 7$

(B) : $23 - 19 = 4$

(C) : $27 - 19 = 8$

(D) : $23 - 21 = 2$

=> Ans - (B)

Question 28

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

EFG: GHI:: ? : ?

A RFH: THJ

B NPS: OQT

C LAN: JYL

D TOP: QLM

Answer: A

Explanation:

Expression = EFG: GHI:: ? : ?

The pattern followed is :

E	F	G
(+2)	(+2)	(+2)
G	H	I

Similar pattern is observed only in :

R	F	H
(+2)	(+2)	(+2)
T	H	J

=> Ans - (A)

Question 29

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

- A Length - Metre
- B Temperature - Degree
- C Ampere - Current
- D Work - Joule

Answer: 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 12 - 121
- B 14 - 169
- C 16 - 215
- D 18 - 289

Answer: C

Explanation:

If we subtract '1' from the first number and then take the square, the pattern followed is :

$$(12 - 1)^2 = 121$$

$$(14 - 1)^2 = 169$$

$$(16 - 1)^2 = 225 \neq 215$$

$$(18 - 1)^2 = 289$$

=> Ans - (C)

Question 31

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

- A HFD
- B SQO
- C ZXV
- D BZU

Answer: D

Explanation:

(A) : H (-2 letters) = F (-2 letters) = D

(B) : S (-2 letters) = Q (-2 letters) = O

(C) : Z (-2 letters) = X (-2 letters) = V

(D) : B (-2 letters) = Z (-5 letters) = U

=> Ans - (D)

Question 32

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

1. Brides
2. Boastful
3. Blizzard
4. Biology
5. Brilliant

A 15234

B 54321

C 43215

D 32145

Answer: C

Explanation:

As per the order of dictionary :

= Biology -> Blizzard -> Boastful -> Brides -> Brilliant

≡ 43215

=> Ans - (C)

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Question 33

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

12, 15, 19, 24, 30, ?

A 38

B 37

C 39

D 40

Answer: B

Explanation:

Consecutive integers are added.

$$12 + 3 = 15$$

$$15 + 4 = 19$$

$$19 + 5 = 24$$

$$24 + 6 = 30$$

$$30 + 7 = 37$$

=> 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.
A, D, H, M, ?

A R

B S

C Q

D T

Answer: B

Explanation:

Series : A, D, H, M, ?

The pattern followed is :

A (+3 letters) = D (+4 letters) = H (+5 letters) = M (+6 letters) = S

=> Ans - (B)

Question 35

In a row, there are 8 girls between Aruna and Bimla and Aruna being the first girl in row. There are 5 girls between Bimla and Chetna. If there are 14 girls after Chetna, then how many minimum girls are there in the row?

A 13

B 15

C 18

D 16

Answer: C

Explanation:

Aruna is sitting at first position (say from left end) of the row.

There are 8 girls between Aruna and Bimla, => Bimla is sitting at 10th position.

Now, there are 14 girls after Chetna, for number of girls to be minimum, Chetna must sit to the left of Bimla,

=> Chetna's position = 4th from left end

∴ There are 14 more girls, thus minimum number of girls = 4 + 14 = 18

=> Ans - (C)

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Question 36

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

A Pire

B Rise

C Rose

D Rest

Answer: D

Explanation:

The word PRECIOUS does not contain any 'T', thus the term **Rest** cannot be formed.

=> Ans - (D)

Question 37

In a certain code language, "RINKS" is written as "SKOMT". How is "FRIED" written in that code language?

A PQGHJ

B HUKHD

C KOTGJ

D GTJGE

Answer: D

Explanation:

"RINKS" is written as "SKOMT"

The pattern followed is :

R	I	N	K	S
(+1)	(+2)	(+1)	(+2)	(+1)
S	K	O	M	T

Similarly, for FRIED :

F	R	I	E	D
(+1)	(+2)	(+1)	(+2)	(+1)
G	T	J	G	E

=> Ans - (D)

Question 38

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

$$5 \div 4 - 10 + 7 \times 16 = ?$$

A 50

B 5

C 9

D 11

Answer: D

Explanation:

$$\text{Expression : } 5 \div 4 - 10 + 7 \times 16 = ?$$

$$\equiv 5 \times 4 \div 10 - 7 + 16$$

$$= \overset{20}{10} - 7 + 16$$

$$= 2 + 9 = 11$$

=> Ans - (D)



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Question 39

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

$$18 \times 12 - 3 \div 10 + 2 = 64$$

- A + and \times
- B - and \div
- C \div and +
- D - and +

Answer: B

Explanation:

Expression : $18 \times 12 - 3 \div 10 + 2 = 64$

(A) : + and \times

$$\equiv 18 + 12 - 3 \div 10 \times 2 = 64$$

$$\text{L.H.S.} = 30 - \frac{6}{10} = 29.4 \neq \text{R.H.S.}$$

(B) : - and \div

$$\equiv 18 \times 12 \div 3 - 10 + 2 = 64$$

$$\text{L.H.S.} = (18 \times 4) - 8 = 64 = \text{R.H.S.}$$

=> Ans - (B)

Question 40

If $9\#3 = 120$, $3\#4 = 70$ and $2\#9 = 110$, then Find the value of $5\#2 = ?$

- A 40
- B 50
- C 70
- D 80

Answer: C

Explanation:

Given : $9\#3 = 120$, $3\#4 = 70$ and $2\#9 = 110$

If we replace '#' with '+', and multiply the sum by 10, we get the desired result.

$$\text{Eg :- } (9 + 3) \times 10 = 120$$

$$\text{and } (3 + 4) \times 10 = 70 \text{ and } (2 + 9) \times 10 = 110$$

$$\text{Similarly, } (5 + 2) \times 10 = 70$$

=> Ans - (C)

Question 41

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

QPPPPPP, QQPPPPP, QQQPPPP, QQQQPPP, QQQQPPP, _____.

- A QQQQQQP

- B P P P P P P P
- C Q P P P P P P
- D Q Q P P P P P

Answer: A

Explanation:

Expression : Q P P P P P P, Q Q P P P P P, Q Q Q P P P P, Q Q Q Q P P P, Q Q Q Q Q P P, _____.

The pattern followed is that in each term there are combinations of 'P' and 'Q' (7 letters) and in each term, the number of Q's from left side are increasing and number of P's from right side are decreasing.

Thus, in the missing term, there are 6 Q's and 1 P = **Q Q Q Q Q Q P**

=> Ans - (A)

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Question 42

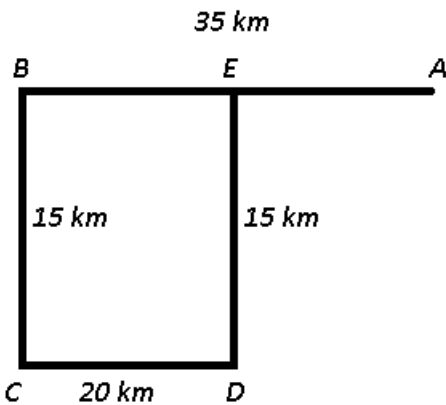
A pilot takes off and flies 35 km West then, it turns South and flies 15 km, then it turns to its left and flies 20 km, then it turns north and flies 15 km. Where is the plane now with respect to its starting position?

- A 55 km West
- B 15 km East
- C 15 km West
- D 55 km East

Answer: C

Explanation:

Let the pilot takes off from point A and flies 35 km West to reach B then, it turns South and flies 15 km to reach C, then it turns to its left and flies 20 km eastwards, then it turns north and flies 15 km to finally stop at point E.



=> $AE = 35 - 20 = 15 \text{ km}$

∴ The plane is **15 km west** with respect to its starting position.

=> Ans - (C)

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: No rings are bangles

Statement II: All gold are rings

Conclusion I: No bangles are gold

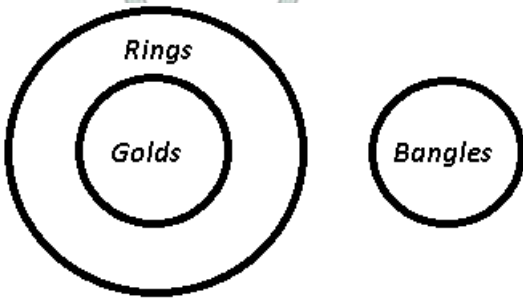
Conclusion II: Some rings are gold

- 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: C

Explanation:

The venn diagram for above statements is :



Conclusion I: No bangles are gold = true

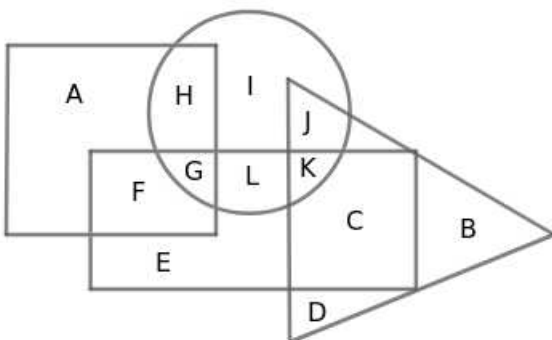
Conclusion II: Some rings are gold = true

Thus, both conclusions I and II follow.

=> Ans - (C)

Question 44

In the following figure, rectangle represents Dentists, circle represents Bloggers, triangle represents Comedians and square represents Boxers. Which set of letters represents Dentists who are either Bloggers or Comedians?



- A LKCB
- B GLKC
- C FEC
- D K

Answer: B

Explanation:

From the figure,

Dentists who are either Bloggers or Comedians = Intersection of rectangle and circle + Intersection of rectangle and triangle = $GLK + KC = GLKC$

Hence, the correct answer is Option B

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Question 45

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ANT, CPV, ERX, ?, IVB

- A GTZ
- B FSY
- C GTY
- D FSZ

Answer: A

Explanation:

Series : ANT, CPV, ERX, ?, IVB

The pattern followed in each letter of the terms is :

1st letter : A (+2 letters) = C (+2 letters) = E (+2 letters) = G (+2 letters) = I

2nd letter : N (+2 letters) = P (+2 letters) = R (+2 letters) = T (+2 letters) = V

3rd letter : T (+2 letters) = V (+2 letters) = X (+2 letters) = Z (+2 letters) = B

Thus, missing term = **GTZ**

=> Ans - (A)

Question 46

In the following question, select the missing number from the given series.
43, 44, 46, 47, 49, 50, ?

- A 54
- B 53
- C 51
- D 52

Answer: D

Explanation:

'1' and '2' are alternatively added.

$$43 + 1 = 44$$

$$44 + 2 = 46$$

$$46 + 1 = 47$$

$$47 + 2 = 49$$

$$49 + 1 = 50$$

$$50 + 2 = 52$$

=> Ans - (D)

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 (10, 12, 14)

B (12, 14, 16)

C (18, 20, 22)

D (24, 26, 30)

Answer: D

Explanation:

The numbers are of the form : $(x, x + 2, x + 4)$

But in the last option, we have = $24 + 4 = 28 \neq 30$

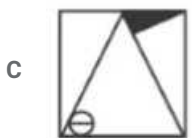
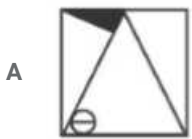
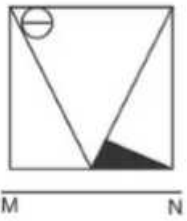
Thus, (24, 26, 30) is the odd one out.

=> 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?



D



Answer: C

Explanation:

A horizontal mirror is placed, so the object on the top will appear at the bottom in reverse position and vice-versa.

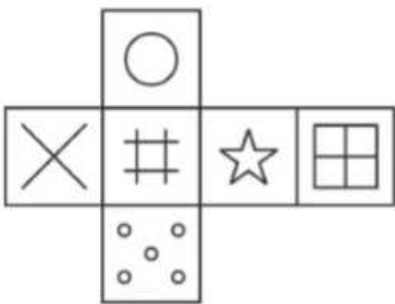
So the triangle in the middle (with base at top side of square) facing downwards will now appear facing upwards, thus the second and last options will be eliminated.

Also, in the question figure at bottom right, the black colored triangle will appear at top right side, hence third option is the right image.

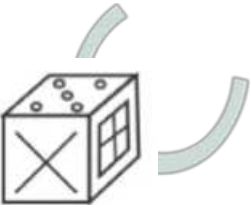
=> Ans - (C)

Question 49

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



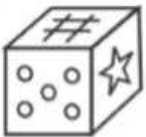
A



B



C



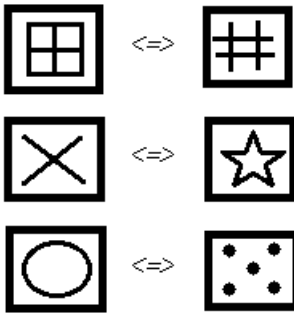
D



Answer: D

Explanation:

When we fold the given figure, the circle with a '#' 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 last option is not possible.

=> Ans - (D)

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 '8' can be represented by 24, 31 etc and T can be represented by 56, 59 etc. Similarly, you have to identify the set for the word 'AXES'.

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

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

- A 44,85,21,65
- B 44,98,40,75
- C 10,97,31,67
- D 23,56,11,79

Answer: D

Explanation:

- (A) : 44,85,21,65 = DSCV
- (B) : 44,98,40,75 = DRLU
- (C) : 10,97,31,67 = FYBP
- (D) : 23,56,11,79 = **AXES**

=> Ans - (D)

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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

Photosynthesis is (a)/ possible (b)/ because of sun. (c)/ No error (d)

- A Photosynthesis is

- B possible
- C because of sun
- D No error

Answer: C

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Question 52

Every effect we see, hear or speak in our outside (a)/ or physical world has a specific cause that (b)/ have its origin in the inner or mental world. (c)/ No error (d)

- A Every effect we see, hear or speak in our outside
- B or physical world has a specific cause that
- C have its origin in the inner or mental world
- 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

_____ worst is yet to come.

- A The
- B An
- C A
- D None

Answer: A

Question 54

Corruption is an evil generally more _____ in the underdeveloped and developing countries of the world.

- A reluctant
- B distant
- C rampant
- D extravagant

Answer: C

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

Turbulence

- A Agitation
- B Calmness
- C Repose
- D Stillness

Answer: A

Question 56

Quiescent

- A Dull
- B Questionable
- C Bright
- D Alive

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

Sordid

- A Dirty
- B Black
- C Corrupt
- D Reputable

Answer: D

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Question 58

Relationship

- A Affinity
- B Member
- C Leaning

D Opposition

Answer: D

Instructions

For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.

The art of

P: efforts and practice

Q: fruit of persistent

R: effective presentation is the

A QPR

B RPQ

C RQP

D PRQ

Answer: C

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.

The girl caught the kite.

A The kite was caught by the girl.

B The kite is caught by the girl.

C The kite was catch by the girl.

D The kite is catch by the girl.

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.

Tina said to him, "Please wait here till I return."

A Tina asked him to stay there.

B Tina requested him to wait there till she returned.

C Tina request him to wait until she comes.

D Tina says he should wait there till her returned.

Answer: B

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 Laison
- B Liaison
- C Lieison
- D Liaisone

Answer: B

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. Photography is the _____ we can get to stopping time. The camera is our pause button, the cork we use to stop time from running out. And the photo album is the most potent time machine ever _____, one that transports you to a curated past where everything exists _____ you choose to remember it, one that lets you revisit _____ just people and places and ages, but the hidden crannies of _____ own memory and the strange landscape of emotions that lies beyond.

Question 63

Photography is the _____ we can get to stopping time.

- A close
- B closest
- C closeness
- D closely

Answer: B

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Question 64

time machine ever _____, one that transports

- A build
- B built
- C building
- D builds

Answer: B

Question 65

everything exists _____ you choose to

- A so

- B to
- C at
- D as

Answer: C

Question 66

lets you revisit _____ just people

- A nor
- B none
- C no
- D not

Answer: C

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Question 67

but the hidden crannies of _____ own memory and

- A your
- B you
- C yourself
- D yourselves

Answer: C

Instructions

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

Question 68

Be left stranded

- A Unable to leave somewhere because of a problem.
- B Suffer a bad hair day.
- C Having only a single thing to hold on to save yourself.
- D To be the last person on whom the blame falls on eventually.

Answer: D

Question 69

All thumbs

- A Permission from the concerned people to go ahead.

- B A crowd cheering their favourite team.
- C Physically awkward, especially with respect to the hands.
- D An illiterate person who cannot sign his name.

Answer: B

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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

A group of people leading the way in new developments or ideas

- A Sycophant
- B Stooge
- C Zealot
- D Vanguard

Answer: C

Question 71

Eager or quick to argue or fight; aggressively defiant

- A Docile
- B Truculent
- C Pliable
- D Pliant

Answer: D

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

The base of the cooking vessels would have a thick coating of carbon deposit and (clean) it was a pain.

- A cleaned
- B cleans
- C cleaning
- D no improvement

Answer: C

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Question 73

It (has been pointed) out that people's Facebook postings are not a real reflections of who they are.

- A has being pointed
- B has been point
- C has been pointing
- D no improvement

Answer: D

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.

The introduction of

A: had ruled from the time man learned to cook food

B: meant the end of firewood, which

C: the kerosene stove also

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

Answer: B

Question 75

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

- A obsessive
- B obsessiv
- C obsessive
- D obsesiv

Answer: C

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General Awareness

Instructions

For the following questions answer them individually

Question 76

Which of the following best defines free trade?

- A Imports are discouraged
- B There are no restrictions on exports and imports
- C There are no duties levied on export
- D Imported goods are made duty free

Answer: B

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Question 77

Non-Tax revenue can be increased by improving the working of _____.

- A Commercial Irrigation Projects
- B State Road Transport Corporation
- C Electricity Boards
- D No option is correct.

Answer: A

Question 78

Which ruler of the Vijayanagar empire was the friend of the Portuguese Governor Albuquerque?

- A Devaraya II
- B Narsingh Raya
- C Krishna Deva Rai
- D Venkat II

Answer: C

Question 79

Which of the following was not done during the time of Lord Curzon?

- A Partition of Bengal
- B Formation of Bhartiya Lok Sevv Mandal
- C Establishment of the Famine Commission
- D Formation of Hunter Commission

Answer: D

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Question 80

A sector between the two longitude lines is known by which name?

- A Belt
- B Gore
- C Time:block
- D Time box

Answer: B

Question 81

Which Indian territory was formerly known as 'Black Water' before Independence?

- A Lakshadweep Group
- B Andaman and Nicobar Islands
- C Diu
- D Aliabet and Khadiabet

Answer: B

Question 82

Sitara Devi is associated with _____.

- A Manipuri dance
- B Kathak dance
- C Garba dance
- D Hindustani Vocal

Answer: B

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Question 83

What was the name of the 11th edition of bilateral naval exercise conducted in December 2017 by India and Oman near Muscat?

- A Naseem-Al-Bhar
- B Dariyadili
- C Joha-al-Noor
- D Mohobbaten

Answer: A

Question 84

Which actor won the best actor award in the 64th National Film Awards?

- A Manoj Joshi
- B Akshay Kumar
- C Aamir Khan
- D Manoj Bajpayee

Answer: B

Question 85

What is NOT right about Bangladesh's flag?

- A It consists of a red circle in the middle
- B It has a green background
- C The length to width ratio of the rectangle is 4:3
- D The middle circle has a radius of one fifth of the length

Answer: C

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Question 86

Oxygen molecule is _____.

- A Monoatomic
- B Diatomic
- C Triatomic
- D Polyatomic

Answer: B

Question 87

Which of the following statement(s) is/are CORRECT?

- I. Acids are sour in taste and generate H^+ ions.
- II. Acids are sour in taste and generate OH^- ions.
- III. Bases are bitter in taste and generate OH^- ions.

- A Only I and III
- B Only I and II
- C Only II and III
- D All I, II and III

Answer: A

Question 88

In India, who is also known as 'the guardian of the public purse'?

- A Comptroller and Auditor General of India
- B Prime Minister of India
- C Chief Justice of India
- D Ministry of law and Justice

Answer: A

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Question 89

Which among the following is/are All India Service(s)?

- I. Indian Administrative Service
- II. Indian Police Service
- III. Indian Forest Service

- A Only I
- B Only II
- C Both I and II
- D All I, II and III

Answer: B

Question 90

_____ is the source of energy and materials in human beings.

- A Water
- B Sunlight
- C Food
- D Gas

Answer: C

Question 91

The somatosensory receptors in human beings detect _____.

- A taste
- B smell
- C touch
- D hear

Answer: C

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Question 92

To make child labour free society, PENCIL portal was launched in September 2017 in India. What does 'P' stand for in 'PENCIL'?

- A Partnership
- B Platform
- C Podium
- D People

Answer: B

Question 93

Which vaccine company has developed Typhoid Conjugate vaccine that has received pre - qualification from the World Health Organisation (WHO) for global use?

- A Panacea Biotech
- B Bharat Biotech
- C Biocon
- D Bharat Serums and Vaccines

Answer: B

Question 94

As per the data released by the Income Tax Department in December 2017, how much percent of total population paid income tax in the assessment year 2015:16?

- A 1.7
- B 5.7
- C 9.7
- D 11.7

Answer: A

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Question 95

On 20 July 2017, Lok Sabha passed IIIT:PPP Bill, 2017. The Bill seeks to allow 15 IIITs established on a PPP model to grant degrees. What does 'PPP' stand for?

- A Public Private Placement
- B Public Private Partnership
- C Public Private Pickup
- D Public Private Policy

Answer: B

Question 96

Find the resistance (in mega Ω) of a wire of length 8 m, cross sectional area 2 cm² and made of a material of resistivity 120 Ω m.

- A 1920
- B 4.8
- C 2.4
- D 960

Answer: B

Question 97

The slope of a Distance:Time graph shows _____.

- A acceleration
- B momentum
- C mass
- D speed

Answer: D

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Question 98

Air expands when it _____.

- A is cooled
- B is heated
- C is under pressure
- D becomes more humid

Answer: B

Question 99

Which of the statements given below are correct?

- A) In 2017, Wes Morgan captained the Premier League team Leicester City.
- B) In 2017, Romelu Lukaku played for the Premier League team Manchester United.
- C) France hosted the Tennis 2017 Davis Cup Final.

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

Answer: C

Question 100

In Microsoft Word, _____ setting allows us to align the text at a particular point, or to create a tabular layout.

- A Indentation
- B Bullets
- C Numbering
- D Tabs

Answer: D

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