



SSC CHSL 12 March 2018 Afternoon Shift

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Instructions

For the following questions answer them individually

Question 1

Ankit runs 324 metres every day for his fitness. According to his daily routine in how many days he covers 8.1 km.

- A 21
- B 23
- C 25
- D 27

Answer: C

Explanation:

8.1 km = 8100 m

Time taken to cover 324 m = 1 day

=> Time taken to cover 8100 m = $\frac{1}{324} \times 8100$

= $\frac{450}{18} = 25$ days

=> Ans - (C)

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Question 2

Simplify: $(13)^2 - (14)^2 + (17)^2 - 250 = \sqrt{?}$

- A 196
- B 169
- C 121
- D 144

Answer: D

Explanation:

Expression : $(13)^2 - (14)^2 + (17)^2 - 250 = \sqrt{x}$

=> $\sqrt{x} = 169 - 196 + 289 - 250 = 12$

=> $x = (12)^2 = 144$

=> Ans - (D)

Question 3

Determine the value of $\frac{a^2+b^2}{a^3+b^3}$ **if** $a = 2 + \sqrt{3}$ **and** $b = 2 - \sqrt{3}$

- A 0.27
- B 0.42
- C 0.58

D 0.93

Answer: A

Explanation:

Given : $a = 2 + \sqrt{3}$

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

$$\Rightarrow \frac{1}{a} = \frac{1}{2 + \sqrt{3}} \times \frac{2 - \sqrt{3}}{2 - \sqrt{3}}$$

$$\Rightarrow \frac{1}{a} = \frac{2 - \sqrt{3}}{4 - 3} = 2 - \sqrt{3} = b$$

Thus, $b = \frac{1}{a}$

$$\Rightarrow a + \frac{1}{a} = (2 + \sqrt{3}) + (2 - \sqrt{3}) = 4 \text{-----(i)}$$

To find : $\frac{a^2 + b^2}{a^3 + b^3} = (a^2 + \frac{1}{a^2}) \div (a^3 + \frac{1}{a^3})$

$$= [(a + \frac{1}{a})^2 - 2(a)(\frac{1}{a})] \div [(a + \frac{1}{a})^3 - 3(a)(\frac{1}{a})(a + \frac{1}{a})]$$

Using equation (i), we get :

$$= [(4)^2 - 2] \div [(4)^3 - 3(4)]$$

$$= \frac{(16-2)}{(64-12)} = \frac{14}{52} \approx 0.27$$

\Rightarrow Ans - (A)

Question 4

What is the x-intercept of line joining (4, 2) and (6, 3) ?

A 0

B 1

C 2

D 3

Answer: A

Explanation:

Equation of line joining (4, 2) and (6, 3) is : $(y - 2) = \frac{(3-2)}{(6-4)} \times (x - 4)$

$$\Rightarrow y - 2 = \frac{1}{2}(x - 4)$$

To find x-intercept, we substitute $y = 0$

$$\Rightarrow 0 - 2 = \frac{1}{2}(x - 4)$$

$$\Rightarrow x - 4 = -4$$

$$\Rightarrow x = 4 - 4 = 0$$

\Rightarrow Ans - (A)

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Question 5

Which of the following triangle is formed when the triangle has all the three medians of equal length?

A Scalene

- B Isosceles
- C Equilateral
- D Right angled

Answer: C

Explanation:

An *equilateral* triangle is formed when the triangle has all the three medians of equal length.

=> Ans - (C)

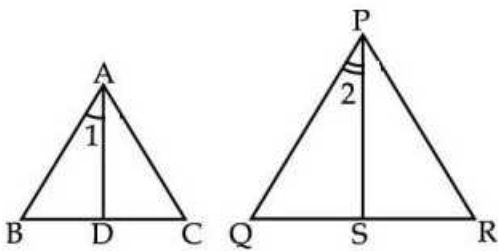
Question 6

If the ratio of the angle bisector segments of the two equiangular triangles are in the ratio of 3:2 then what is the ratio of the corresponding sides of the two triangles?

- A 2:3
- B 3:2
- C 6:4
- D 4:6

Answer: B

Explanation:



Given : $AD : PS = 3 : 2$

To find : $AB : PQ = ?$

Solution : The given triangles are equiangular, i.e. $\angle A = \angle P$, $\angle B = \angle Q$, $\angle C = \angle R$

Now, in $\triangle ABD$ and $\triangle PQS$,

$$\angle B = \angle Q$$

$$\angle BAD = \angle QPS \quad [\because \angle A = \angle P \Rightarrow \frac{1}{2} \angle A = \frac{1}{2} \angle P \Rightarrow \angle BAD = \angle QPS]$$

So, by A-A criterion of similarity, we have :

$$\triangle ABD \sim \triangle PQS$$

$$\Rightarrow \frac{AB}{PQ} = \frac{AD}{PS} = \frac{3}{2}$$

=> Ans - (B)

Question 7

Which number is 30% less than 80% of 800?

- A 524
- B 192
- C 448

D 368

Answer: C

Explanation:

$$80\% \text{ of } 800 = \frac{80}{100} \times 800 = 640$$

Number which is 30% less than 640 = 70% of 640

$$= \frac{70}{100} \times 640$$

$$= 7 \times 64 = 448$$

=> Ans - (C)

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Question 8

A box contains equal number of 1 rupee, 2 rupee and 5 rupee coins. If the total amount is Rs 184, then how many coins of each type are there?

A 18

B 26

C 25

D 23

Answer: D

Explanation:

Let x type of each coin is in the box.

$$\text{Total amount} = (x \times 1) + (x \times 2) + (x \times 5) = 184$$

$$\Rightarrow x + 2x + 5x = 184$$

$$\Rightarrow x = \frac{184}{8} = 23$$

∴ There are 23 coins of each type.

=> Ans - (D)

Question 9

A 50 litre mixture of water and alcohol contains 10% alcohol. How much more alcohol must be added to make the strength of alcohol 40% in the new mixture?

A 25

B 30

C 20

D 23

Answer: A

Explanation:

$$\text{Quantity of alcohol in 50 litres mixture} = \frac{10}{100} \times 50 = 5 \text{ litres}$$

Let x litres of alcohol is added,

$$\Rightarrow x + 5 = \frac{40}{100} \times (x + 50)$$

$$\Rightarrow x + 5 = \frac{2}{5} \times (x + 50)$$

$$\Rightarrow 5x + 25 = 2x + 100$$

$$\Rightarrow 5x - 2x = 100 - 25$$

$$\Rightarrow 3x = 75$$

$$\Rightarrow x = \frac{75}{3} = 25$$

∴ **25 litres** alcohol must be added to make the strength of alcohol 40% in the new mixture.

⇒ Ans - (A)

Question 10

In a committee there are 25 members. If two members whose ages are 64 years and 40 years are replaced by the two new members, then average age of 25 members is decreased by 2 years. What is the average age (in years) of the new members?

A 27

B 32

C 38

D 44

Answer: A

Explanation:

Let average age of 25 members = x years

⇒ Total age of 25 members = $25x$

Let sum of ages of 2 new members = $2z$, thus average age = $z = ?$

According to ques,

$$\Rightarrow \frac{25x - 64 - 40 + 2z}{25} = x - 2$$

$$\Rightarrow 25x - 104 + 2z = 25x - 50$$

$$\Rightarrow 2z = 104 - 50 = 54$$

$$\Rightarrow z = \frac{54}{2} = 27$$

∴ Average age of the new members = 27

⇒ Ans - (A)

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Question 11

Simple interest on a sum of Rs 3300 for 5 years is Rs 1980. What is the annual rate (in percentage) of interest?

A 10

B 15

C 12

D 9

Answer: C

Explanation:

Principal amount = Rs. 3300 and interest = Rs. 1980

Let rate of interest = $r\%$ and time period = 5 years

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

$$\Rightarrow \frac{3300 \times r \times 5}{100} = 1980$$

$$\Rightarrow 165r = 1980$$

$$\Rightarrow r = \frac{1980}{165} = 12\%$$

\Rightarrow Ans - (C)

Question 12

On selling 30 caps, a shopkeeper earns profit equal to the selling price of 3 caps. What is the profit percentage?

A 12.5

B 11.11

C 10

D 14.28

Answer: B

Explanation:

Let cost price of a cap = Rs. x and selling price = Rs. y

Profit on selling 30 caps = Rs. $30(y - x)$

According to ques,

$$\Rightarrow 30(y - x) = 3y$$

$$\Rightarrow 30y - 30x = 3y$$

$$\Rightarrow 30x = 30y - 3y = 27y$$

$$\Rightarrow \frac{y}{x} = \frac{30}{27} = \frac{10}{9}$$

Let $x = 9$ and $y = 10$

$$\text{Thus, profit \%} = \frac{(y-x)}{x} \times 100$$

$$= \frac{(10-9)}{9} \times 100$$

$$= \frac{100}{9} = 11.11\%$$

\Rightarrow Ans - (B)

Question 13

Selling price of an article is Rs 2397 and discount offered is 15%. What is the marked price (in Rs)?

A 2756.5

B 2856.6

C 2740

D 2820

Answer: D

Explanation:

Selling price = Rs. 2397

Discount % = 15%

$$\Rightarrow \text{Marked price} = \frac{2397}{(100-15)} \times 100$$

$$= 141 \times 20 = \text{Rs. } 2820$$

\Rightarrow Ans - (D)

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Question 14

If $3\sqrt{2} + \sqrt{18} + \sqrt{50} = 15.55$, then what is the value of $\sqrt{32} + \sqrt{72}$?

A 13.22

B 10.83

C 14.13

D 16.54

Answer: C

Explanation:

$$\text{Given : } 3\sqrt{2} + \sqrt{18} + \sqrt{50} = 15.55$$

$$\Rightarrow 3\sqrt{2} + 3\sqrt{2} + 5\sqrt{2} = 15.55$$

$$\Rightarrow \sqrt{2} = \frac{15.55}{11} = 1.413 \text{ -----(i)}$$

$$\text{To find : } \sqrt{32} + \sqrt{72}$$

$$= 4\sqrt{2} + 6\sqrt{2} = 10\sqrt{2}$$

$$= 10 \times 1.413 = 14.13$$

\Rightarrow Ans - (C)

Question 15

Both X and Y together can complete a work in 12 days and Y alone can complete the same work in 30 days. In how many days will X alone complete the work?

A 15

B 20

C 18

D 16

Answer: B

Explanation:

Let the total work to be done = L.C.M. (12,30) = 60 units

Y alone can complete the same work in 30 days, \Rightarrow Y's efficiency = $\frac{60}{30} = 2$ units/day

Similarly, (X+Y)'s 1 day's work = $\frac{60}{12} = 5$ units/day

\Rightarrow X's efficiency = $5 - 2 = 3$ units/day

\therefore Time taken by X to complete the work alone = $\frac{60}{3} = 20$ days

\Rightarrow Ans - (B)

Question 16

A 600 metres long train is running at the speed of 81 km/hr. If it crosses a platform in 40 seconds, then what is the length of the platform (in metres)?

- A 220
- B 300
- C 360
- D 410

Answer: B

Explanation:

Let length of platform = l m and length of train = 600 m

Speed of train = 81 km/hr = $(81 \times \frac{5}{18}) = 22.5$ m/s

Using, distance = speed \times time

$$\Rightarrow l + 600 = 22.5 \times 40$$

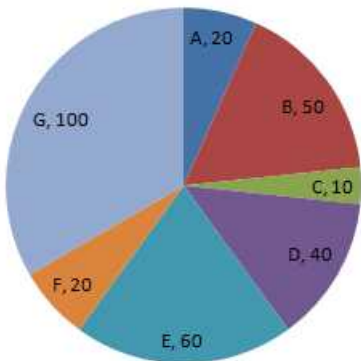
$$\Rightarrow l = 900 - 600 = 300 \text{ m}$$

\Rightarrow Ans - (B)

SSC CHSL Important Questions and Answers (Download PDF)

Instructions

The pie chart shows the investments made by 7 partners in a business. Study the diagram and answer the following questions.



Investment (in Rs. Lakhs)

Question 17

Which partner has made the second highest investment?

- A B
- B C
- C D
- D E

Answer: D

Explanation:

E has made the second highest investment = Rs. 60 lakhs

\Rightarrow Ans - (D)

Question 18

What is the total investment (in Rs lakhs) in the business?

- A 400
- B 350
- C 300
- D 250

Answer: C

Explanation:

Total investment (in Rs lakhs) in the business

$$= 20 + 50 + 10 + 40 + 60 + 20 + 100$$

$$= 300$$

=> Ans - (C)

Question 19

The measure of the central angle of the sector representing investment of partner E is _____ degrees.

- A 60
- B 36
- C 50
- D 72

Answer: D

Explanation:

Investment of partner E (in Rs lakhs) = 60

Total investment (in Rs lakhs) in the business

$$= 20 + 50 + 10 + 40 + 60 + 20 + 100 = 300$$

$$\Rightarrow \text{Required central angle} = \frac{60}{300} \times 360^\circ$$

$$= \frac{360^\circ}{5} = 72^\circ$$

=> Ans - (D)

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Question 20

If the business makes Rs. 45 lakh profit which is distributed between the partners how much does C get (in Rs lakhs)?

- A 3
- B 2
- C 1.5
- D 2.5

Answer: C

Explanation:

Investment of partner C (in Rs lakhs) = 10

Total investment (in Rs lakhs) in the business

$$= 20 + 50 + 10 + 40 + 60 + 20 + 100 = 300$$

$$\Rightarrow \% \text{ investment of C} = \frac{10}{300} \times 100 = \frac{10}{3} \%$$

Profit = Rs. 45 lakhs

$$\therefore \text{C's share (in Rs lakhs)} = \frac{10}{3 \times 100} \times 45$$

$$= \frac{45}{30} = 1.5$$

\Rightarrow Ans - (C)

Instructions

For the following questions answer them individually

Question 21

The lengths of the two diagonals of a rhombus are 7 cm and 24 cm. Find the length of its perimeter (in cm).

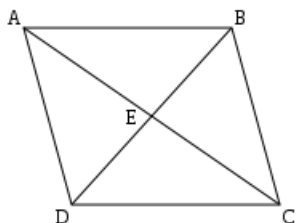
A 25

B 100

C 75

D 50

Answer: D

Explanation:

Given : ABCD is a rhombus and AC = 24 cm and BD = 7 cm

To find : Perimeter of ABCD

Solution : Diagonals of a rhombus bisect each other at right angle.

$$\Rightarrow BE = \frac{7}{2} = 3.5 \text{ cm and } AE = \frac{24}{2} = 12 \text{ cm}$$

Thus, in right $\triangle AEB$,

$$\Rightarrow (AB)^2 = (AE)^2 + (BE)^2$$

$$\Rightarrow (AB)^2 = (12)^2 + (3.5)^2$$

$$\Rightarrow (AB)^2 = 144 + 12.25 = 156.25$$

$$\Rightarrow AB = \sqrt{156.25} = 12.5 \text{ cm}$$

$$\therefore \text{Perimeter of rhombus ABCD} = 4 \times 12.5 = 50 \text{ cm}$$

\Rightarrow Ans - (D)

Question 22

If the perimeter of a semicircle is 36 cm, then find its area (in cm^2)

A 154

B 35

C 77

D 70

Answer: C

Explanation:

Let radius of semi circle = r cm

$$\Rightarrow \text{Perimeter of semi circle} = \pi r + 2r = 36$$

$$\Rightarrow r\left(\frac{22}{7} + 2\right) = 36$$

$$\Rightarrow r\left(\frac{22+14}{7}\right) = 36$$

$$\Rightarrow r = 36 \times \frac{7}{36} = 7 \text{ cm}$$

$$\therefore \text{Area of semi-circle} = \frac{1}{2} \pi r^2$$

$$= \frac{1}{2} \times \frac{22}{7} \times (7)^2$$

$$= 11 \times 7 = 77 \text{ cm}^2$$

\Rightarrow Ans - (C)

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Question 23

The volume of a hemisphere is 19404 cm³. Find its diameter (in cm).

A 42

B 21

C 84

D 63

Answer: A

Explanation:

Let radius of hemisphere = r cm

$$\text{Volume of hemisphere} = \frac{2}{3} \times \pi r^3$$

$$\Rightarrow \frac{2}{3} \times \frac{22}{7} \times (r)^3 = 19404$$

$$\Rightarrow (r)^3 = 19404 \times \frac{21}{44}$$

$$\Rightarrow (r)^3 = 441 \times 21$$

$$\Rightarrow r = \sqrt[3]{21 \times 21 \times 21} = 21 \text{ cm}$$

$$\therefore \text{Diameter} = 2 \times 21 = 42 \text{ cm}$$

\Rightarrow Ans - (A)

Question 24

What is the value of $(\tan 60^\circ - 1/3)$?

A $3 - \sqrt{2}$

B $\frac{2\sqrt{2}-\sqrt{3}}{2}$

C $\frac{-1}{2\sqrt{3}}$

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

Answer: D

Explanation:

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

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

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

=> Ans - (D)

Question 25

In $\triangle UVW$ measure of angle V is 90 degrees. If $\sin U = \frac{24}{25}$, and $UV = 0.7\text{cm}$, then what is the length (in cm) of side VW?

A 2.5

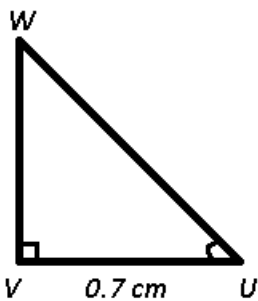
B 3

C 2.4

D 4

Answer: C

Explanation:



Given : $UV = 0.7\text{ cm}$ and $\sin U = \frac{24}{25}$ -----(i)

To find : $VW = ?$

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

$\Rightarrow \cos U = \sqrt{1 - \frac{576}{625}} = \sqrt{\frac{49}{625}} = \frac{7}{25}$ -----(ii)

Dividing equation (i) by (ii), $\Rightarrow \tan U = \frac{24}{7}$

In right $\triangle UVW$,

$\Rightarrow \tan(U) = \frac{VW}{UV}$

$\Rightarrow \frac{24}{7} = \frac{VW}{0.7}$

$\Rightarrow VW = \frac{24}{7} \times 0.7 = 2.4\text{ cm}$

=> 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.

Elephant : Mammal :: ? : ?

- A Crocodile : Mammal
- B Snake : Rodents
- C Rabbit : Mammal
- D Whale : Reptile

Answer: C

Explanation:

Expression = Elephant : Mammal :: ? : ?

The first comes under the category of second, i.e. an elephant is a mammal, similarly a rabbit is also a mammal.

Crocodiles and snakes are reptiles and whale is a mammal.

=> Ans - (C)

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Question 27

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

56 : 30 :: 34 : ?

- A 24
- B 12
- C 7
- D 9

Answer: B

Explanation:

Expression = 56 : 30 :: 34 : ?

The second number in the pair is the product of digits of first number.

Eg :- $5 \times 6 = 30$

Similarly, $3 \times 4 = 12$

=> Ans - (B)

Question 28

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

TOK : UQN :: ROL : ?

- A SQO

- B SLP
- C PQM
- D RHO

Answer: A

Explanation:

Expression = TOK : UQN :: ROL : ?

The pattern followed is :

T	O	K
(+1)	(+2)	(+3)
U	Q	N

Similarly, for ROL : SQO

R	O	L
(+1)	(+2)	(+3)
S	Q	O

=> Ans - (A)

Question 29

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

- A Cone
- B Cylinder
- C Rectangle
- D Prism

Answer: C

Explanation:

Cone, cylinder and prism are 3-dimensional figures, but **rectangle** is a 2-D figure, 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 15 - 19
- B 17 - 21
- C 19 - 23
- D 11 - 13

Answer: D

Explanation:

The difference between each of the pair of numbers is 4.

But in the last option $\Rightarrow 13 - 11 = 2$

Thus, (11 - 13) is the odd one out.

\Rightarrow Ans - (D)

Question 31

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

A HFDB

B KIGD

C VTRP

D NLJH

Answer: B

Explanation:

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

(B) : K (-2 letters) = I (-2 letters) = G (-3 letters) = D

(C) : V (-2 letters) = T (-2 letters) = R (-2 letters) = P

(D) : N (-2 letters) = L (-2 letters) = J (-2 letters) = H

\Rightarrow Ans - (B)

Question 32

From the given alternatives, according to dictionary, which word will come at THIRD position?

1. Serious
2. Single
3. Salted
4. Sand
5. Sickle

A Single

B Sand

C Sickle

D Serious

Answer: D

Explanation:

As per the order of dictionary :

= Salted \rightarrow Sand \rightarrow Serious \rightarrow Sickle \rightarrow Single

Thus, third word = **Serious**

\Rightarrow Ans - (D)

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Question 33

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

23, 29, 24, 30, 25, ?

- A 30
- B 31
- C 26
- D 28

Answer: B

Explanation:

'6' and '5' are alternatively added and subtracted respectively.

$$23 + 6 = 29$$

$$29 - 5 = 24$$

$$24 + 6 = 30$$

$$30 - 5 = 25$$

$$25 + 6 = 31$$

=> 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.
EF, GI, IL, KO, ?

- A MR
- B NP
- C MS
- D NQ

Answer: A

Explanation:

Series : EF, GI, IL, KO, ?

The pattern followed in each letter of the terms is :

1st letter : E (+2 letters) = G (+2 letters) = I (+2 letters) = K (+2 letters) = M

2nd letter : F (+3 letters) = I (+3 letters) = L (+3 letters) = O (+3 letters) = R

Thus, missing term = **MR**

=> Ans - (A)

Question 35

Raja, Komal, Rupal, Sneha and Tarun are sitting in a line facing south. Raja and Komal are sitting together. Rupal is sitting at west end and Sneha is sitting at east end. Tarun is neighbour of Komal and Rupal. Who is sitting in the middle?

- A Raja
- B Tarun
- C Komal
- D Rupal

Answer: C

Explanation:

Rupal is sitting at west end and Sneha is sitting at east end and everyone is facing South.



Tarun is neighbour of Komal and Rupal, => Tarun is sitting to the immediate right of Rupal.

Also, Raja and Komal are sitting together, hence the arrangement is :



∴ Komal is sitting in the middle.

=> 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.
Visitors

- A Viss
- B Visit
- C Sitor
- D Site

Answer: D

Explanation:

The word VISITORS does not contain any 'E', thus the term **Site** cannot be formed.

=> Ans - (D)

Question 37

In a certain code language, "POWER" is written as "RMYCT". How is "TABLE" written in that code language?

- A VYXED
- B VYDJG
- C VWEGT
- D TGJVW

Answer: B

Explanation:

"POWER" is written as "RMYCT"

The pattern followed is :

P	O	W	E	R
(+2)	(-2)	(+2)	(-2)	(+2)
R	M	Y	C	T

Similarly, for TABLE :

T	A	B	L	E
(+2)	(-2)	(+2)	(-2)	(+2)
V	Y	D	J	G

=> Ans - (B)

Question 38

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

$$17 \times 18 \div 30 - 20 + 14 = ?$$

- A 30
- B 9
- C 37
- D 13

Answer: A

Explanation:

$$\text{Expression : } 17 \times 18 \div 30 - 20 + 14 = ?$$

$$\equiv 17 + 18 \times 30 \div 20 - 14$$

$$= 17 + \frac{54}{2} - 14$$

$$= 3 + 27 = 30$$

=> Ans - (A)

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Question 39

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

$$14 + 16 \div 40 \times 8 - 48 = 46$$

- A ÷ and x
- B x and -
- C ÷ and +
- D - and +

Answer: A

Explanation:

$$\text{Expression : } 14 + 16 \div 40 \times 8 - 48 = 46$$

(A) : ÷ and x

$$\equiv 14 + 16 \times 40 \div 8 - 48 = 46$$

$$\text{L.H.S.} = 14 + \left(\frac{16}{8} \times 40\right) - 48$$

$$= 14 + 80 - 48 = 46 = \text{R.H.S.}$$

=> Ans - (A)

Question 40

If $40@8 = 50$, $30@3 = 100$ and $10@2 = 50$, then find the value of $20@5 = ?$

- A 70
- B 50
- C 40

D 90

Answer: C

Explanation:

Given : $40@8 = 50$, $30@3 = 100$ and $10@2 = 50$

If we replace '@' with ' \div ', and multiply the quotient by 10, we get the desired result.

Eg :- $\left(\frac{40}{8}\right) \times 10 = 50$

and $\left(\frac{30}{3}\right) \times 10 = 100$ and $\left(\frac{10}{2}\right) \times 10 = 50$

Similarly, $\left(\frac{20}{5}\right) \times 10 = 40$

=> Ans - (C)

Question 41

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

PRQPQPQPQ, PQRQPQPQ, PQPRQPQPQ, PQPQRQPQPQ, PQQPQRQPQPQ, _____.

A PQQPQRQPQPQ

B RPQPQPQPQPQ

C PRQPQPQPQPQ

D PQRQPQPQPQPQ

Answer: A

Explanation:

Expression : PRQPQPQPQPQ, PQRQPQPQPQPQ, PQPRQPQPQPQPQ, PQPQRQPQPQPQPQ, PQQPQRQPQPQPQPQ, _____.

The above series is a combination of 4 'PQ', also there is an 'R' in each term starting from second position from left side in increasing order.

Thus, in the missing term, 'R' will be at 7th position = PQQPQRQPQPQPQPQ

=> Ans - (A)

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Question 42

An eagle starts from its nest and flies 1 km East, then turns North and flies 2 km, then turns West and flies 7 km, then turns to its left and flies 2 km. Where is it now with respect to its nest?

A 8 km West

B 6 km West

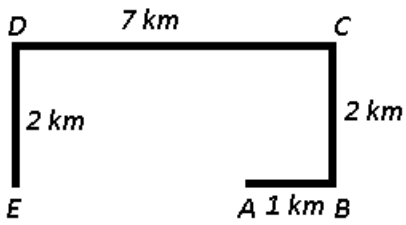
C 6 km East

D 8 km East

Answer: B

Explanation:

Let the eagle starts from its nest A and flies 1 km East to reach B, then turns North and flies 2 km to reach C, then turns West and flies 7 km, then turns to its left and flies 2 km southwards to reach point E.



=> $AE = 7 - 1 = 6 \text{ km}$

∴ It is **6 km west** with respect to its nest.

=> 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: No umbrellas are raincoats

Statement II: Some jackets are umbrellas

Conclusion I: All raincoats are jackets

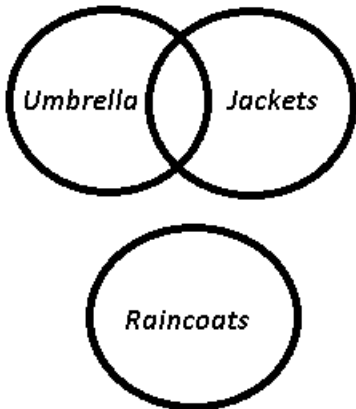
Conclusion II: All jackets are raincoats

- 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: D

Explanation:

The venn diagram for above statements is :



Conclusion I: All raincoats are jackets = false

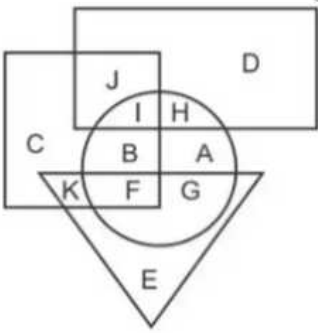
Conclusion II: All jackets are raincoats = false

Thus, neither conclusion I nor conclusion II follows.

=> Ans - (D)

Question 44

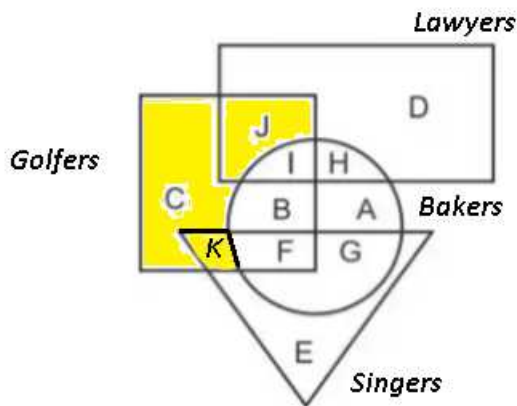
In the following figure, rectangle represents Lawyers, circle represents Bakers, triangle represents Singers and square represents Golfers. Which set of letters represents Golfers who are not Bakers?



- A IBF
- B HAG
- C CJK
- D KFG

Answer: C

Explanation:



Golfers who are not Bakers = C + J + K

=> Ans - (C)

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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. ZCS, XAQ, VYO, TWM, ?

- A SUJ
- B RUK
- C SVK
- D RVJ

Answer: B

Explanation:

Series : ZCS, XAQ, VYO, TWM, ?

The pattern followed in each letter of the terms is :

1st letter : Z (-2 letters) = X (-2 letters) = V (-2 letters) = T (-2 letters) = R

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

3rd letter : S (-2 letters) = Q (-2 letters) = O (-2 letters) = M (-2 letters) = K

Thus, missing term = **RUK**

=> Ans - (B)

Question 46

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

147, 149, 152, 156, 161, ?

A 168

B 167

C 166

D 165

Answer: B

Explanation:

Consecutive integers are added.

$$147 + 2 = 149$$

$$149 + 3 = 152$$

$$152 + 4 = 156$$

$$156 + 5 = 161$$

$$161 + 6 = \mathbf{167}$$

=> Ans - (B)

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 (2, 4, 8)

B (3, 9, 27)

C (4, 16, 32)

D (5, 25, 125)

Answer: C

Explanation:

The numbers are of the form : (x, x^2, x^3)

But in the third option, we have = $4^3 = 64 \neq 32$

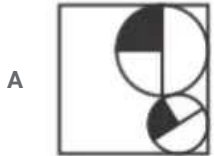
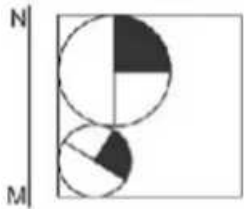
Thus, (4, 16, 32) is the odd one out.

=> Ans - (C)

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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: A

Explanation:

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

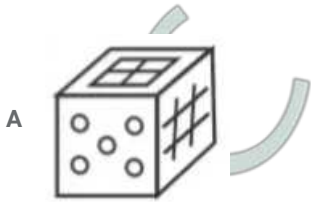
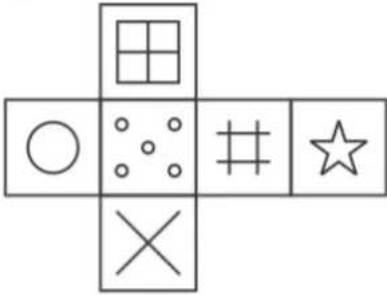
So the order of the circles will remain same, i.e. larger circle will stay at top and smaller at bottom, thus the second and last options will be eliminated.

Also, in the question figure, both the circles are on the left side, hence they will appear on right side, hence first option is the right image.

=> Ans - (A)

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 square with a '5 dots' sign will become the base of the cube and the side with only 'star' 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 12, 34 etc and 'I' can be represented by 85, 96 etc. Similarly, you have to identify the set for the word 'KNIT'.

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

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

- A 32,76,40,87
- B 34,67,21,85
- C 21,69,40,68
- D 22,59,14,68

Answer: A

Explanation:

- (A) : 32,76,40,87 = KNIT
 - (B) : 34,67,21,85 = HQJZ
 - (C) : 21,69,40,68 = JRIX
 - (D) : 22,59,14,68 = JXFX
- => Ans - (A)

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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

She chose (a)/ to stayed (b)/ there for a while. (c)/ No error (d)

- A She chose
- B to stayed
- C there for a while
- D No error

Answer: B

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Question 52

Along with Plato, Aristotle is considered the father of Western (a)/ Philosophy, which from his teachings inherited almost its entire (b)/ lexicon, including problems and methods of inquiry. (c)/ No error (d)

- A Along with Plato, Aristotle is considered the father of Western
- B Philosophy, which from his teachings inherited almost its entire
- C lexicon, including problems and methods of inquiry
- D No error

Answer: D

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

What is it? _____ it wait?

- A may
- B can't
- C would
- D is

Answer: B

Question 54

_____ citizen of India must know about our country's history, struggle, culture and other important things.

- A Each
- B Any
- C Every
- D No

Answer: C

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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

Winsome

- A Repulsive
- B Charming

- C Ugly
- D Repellent

Answer: B

Question 56

Amorous

- A Detest
- B Correct
- C Erotic
- D Appreciate

Answer: C

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

Unprecedented

- A Exceptional
- B Bizarre
- C Fantastic
- D Known

Answer: D

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Question 58

Antithesis

- A Opposite
- B Reverse
- C Harmony
- D Conflict

Answer: C

Instructions

For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.

The first and decisive step

P : in the expansion of

Q : conquest of the Atlantic ocean

R : Europe overseas was the

A RPQ

B QPR

C PRQ

D PQR

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.

I will conquer it.

A It would conquer me.

B It will be conquered by me.

C Conquered it will be by me.

D It will be conquer by me.

Answer: B

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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.

The teacher said, "Wow! You have done well."

A The teacher applauded him, saying that he had done well.

B The teacher appreciated me.

C The teacher said wow, he had done well.

D The teacher applauded him by saying wow.

Answer: A

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 Ocurrence

B Occurrence

C Occurrence

D Occurrence

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.

The English language is _____ complex in character that it can scarcely be learned by rule, and can _____ be mastered by the study of such idioms and phrases as are provided in this book; but just as care must be taken to place every accent or stress _____ the proper syllable in the _____ of every word it contains, so must the stress or emphasis be placed on the proper word in _____ sentence spoken.

Question 63

The English language is _____ complex in character

A as

B to

C at

D so

Answer: D

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Question 64

and can _____ be mastered by the study

A good

B best

C nice

D fine

Answer: B

Question 65

accent or stress _____ the proper

A on

B in

C into

D to

Answer: A

Question 66

syllable in the _____ of every word

- A pronounce
- B pronounces
- C pronounced
- D pronunciation

Answer: D

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Question 67

proper word in _____ sentence spoken.

- A all
- B while
- C every
- D as

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 in the air

- A Harmful gaseous effluents from a factory.
- B To fly like a bird or a plane.
- C When an emotion or idea is on everyone's mind.
- D To be likely to happen.

Answer: C

Question 69

Children should be seen and not heard

- A The voice of children is often drowned in company of adults.
- B Some children will seek attention by crying.
- C Children should not speak in the presence of adults.
- D Those children are likable who dress neatly.

Answer: C

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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

Instruct or improve someone morally or intellectually.

- A Hoodwink
- B Allude
- C Beguile
- D Edify

Answer: D

Question 71

Characterized by bitterness or resentment

- A Piety
- B Amity
- C Rancorous
- D Fidelity

Answer: C

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

That game (were interrupted) by the rains, it resumed an hour after, when the rains stopped.

- A are interrupted
- B was interrupt
- C was interrupted
- D no improvement

Answer: C

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Question 73

The course (has been) a success with more than a thousand students joining it.

- A have been
- B is been
- C was been
- 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.

If a country wants to

A-to listen to the World Bank, the

B-custodian of big business

C-prove it is business-friendly, it has

A BCA

B CAB

C BAC

D ACB

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 impenetrable

B impenetrable

C impanetrable

D immpanetrable

Answer: B

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General Awareness

Instructions

For the following questions answer them individually

Question 76

The Currency Convertibility concept in its original form is originated in_____.

A Taylors agreement

B Wells agreement

C Bretton Woods agreement

D Symonds agreement

Answer: C

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Question 77

India has changed over to the decimal system of coinage in_____.

- A April, 1958
- B April, 1959
- C April, 1995
- D April, 1957

Answer: D

Question 78

Which Vedic text mentioned the eastern and western seas for the first time?

- A Tandya Brahmana
- B Satpath Brahmana
- C Gopath Brahmana
- D Kaustiki Brahmana

Answer: B

Question 79

Mir Hassan Dehlavi was in the court of whom?

- A Alauddin Khilji
- B Mubarak Khilji
- C Muhammad Bin Tughlaq
- D Firoj Tughlaq

Answer: A

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Question 80

Which planet has the highest revolutionary motion?

- A Mercury
- B Venus
- C Mars
- D Neptune

Answer: D

Question 81

Which country forms the longest international border with India in the far east?

- A China
- B Myanmar
- C Thailand
- D Vietnam

Answer: B

Question 82

Saint Kabir was the disciple of whom?

- A Ramanujacharya
- B Chaitanya Mahaprabhu
- C Swami Haridas
- D Ramananda

Answer: D

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Question 83

What was the name of the operation launched by India to help Bangladesh in solving with Rohingya crisis?

- A Operation Saksham
- B Operation Manavata
- C Operation Khushhali
- D Operation Insaniyat

Answer: D

Question 84

Who among the following has been awarded the Dronacharya Award for the year 2017?

- A Bhupender Singh
- B Devendra Nath
- C Syed Shahid Hakim
- D Roshan Lal

Answer: D

Question 85

Which country's national flag has a Dragon on it?

- A Nepal
- B Sri Lanka

- C Myanmar
- D Bhutan

Answer: D

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Question 86

Which of the following is an example of thermoplastics?

- A Bakelite
- B Melamine
- C PVC
- D No option is correct.

Answer: C

Question 87

Which among the following has highest electron affinity?

- A Chlorine
- B Fluorine
- C Helium
- D Xenon

Answer: A

Question 88

If any Fundamental Right of a citizen is breached then under Article 226 of Indian Constitution he can move to _____.

- A Prime Minister of India
- B Chief Justice of India
- C President of India
- D High Court of State

Answer: D

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Question 89

What is the minimum age required to become a member of municipality?

- A 15 years
- B 20 years
- C 21 years

D 25 years

Answer: C

Question 90

In Paramecium, the food is moved to a specific spot by the movement of _____ which cover the entire surface of the cell.

A cilia

B villi

C pseudopodia

D vacuole

Answer: A

Question 91

Which among the following is respiratory pigment in human beings?

A Melanin

B Haemoglobin

C Rhodopsin

D Bilirubin

Answer: B

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Question 92

In July 2017, the Central Government has set the investment limit per fiscal year for 'Hindu Undivided Family' to _____ kg under 'Sovereign Gold Bonds Scheme'.

A 2

B 10

C 4

D 15

Answer: C

Question 93

China has successfully launched two Beidou-3 satellites on board of which carrier rocket?

A Kuaizhou

B Chang-4

C Simorgh

D Long March-3B

Answer: D

Question 94

The Base year of All-Indian WPI (Wholesale Price Index) has been revised from 2004-05 to _____.

- A 2010-11
- B 2015-16
- C 2011-12
- D 2016-17

Answer: C

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Question 95

From May 2017, the Real Estate Act has come into effect. It aims to protect the interests of _____.

- A Bureaucrats
- B Home Buyers
- C Lenders
- D No option is correct.

Answer: B

Question 96

Calculate the frequency (in Hz) of a sound wave of wavelength 4m travelling with a speed of 200 m/s.

- A 50
- B 800
- C 100
- D 400

Answer: A

Question 97

The numerical value of a physical quantity is its _____.

- A vector
- B magnitude
- C direction
- D property

Answer: B

Question 98

Humidity is a measure of the _____.

- A pressure in the air
- B viscosity of the air
- C air resistance
- D moisture in air

Answer: D

Question 99

Which of the statements given below are correct?

- A) Aryan Tari won the 2017 World Junior Chess Championship.
- B) Dustin Johnson won the Golf 2017 WGC-Dell Technologies Match Play.
- C) Rafael Nadal won the Tennis 2017 Wimbledon Championships Men's Singles.

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

Answer: B

Question 100

Books in electronic formats are called _____.

- A i-books
- B e-books
- C e-library
- D e-learning

Answer: B

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