SSC CHSL

Quant

Instructions

For the following questions answer them individually

Question 1

$1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{16} + \frac{1}{32} + \frac{1}{64}$ **is approximately equal to** _____ .

A 1.5

B 2

C 2.5

D 3

   Answer: B

Explanation:

Expression = $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{16} + \frac{1}{32} + \frac{1}{64}$

= $\left(1 + \frac{1}{2} + \frac{1}{2^2} + \frac{1}{2^3} + \frac{1}{2^4} + \frac{1}{2^5} + \frac{1}{2^6}\right) - \left(\frac{1}{8}\right)$

The first term above is a geometric progression with first term, $a = 1$ and common ratio, $r = \frac{1}{2}$

Number of terms, $n = 7$

Sum of n terms of G.P. (when $r < 1$) = $\frac{a(1-r^n)}{1-r}$

= $\left[\frac{1\left(1 - \frac{1}{2}^7\right)}{1 - \frac{1}{2}}\right] - \left(\frac{1}{8}\right)$

= $\left[2 \times \left(1 - \frac{1}{128}\right)\right] - \left(\frac{1}{8}\right)$

= $\frac{127}{64} - \frac{8}{64}$

= $\frac{119}{64} = 1.85 \approx 2$

=> Ans - (B)

Question 2

If $\frac{2x+3y}{3x-4y} = \frac{11}{7}$, **then the value of** $\frac{x}{y}$ **is** _____

A $\frac{65}{19}$

B $\frac{68}{19}$

C $\frac{67}{19}$

D $\frac{64}{19}$

   Answer: A

Explanation:
Expression : $\frac{2x+3y}{3x-4y} = \frac{11}{7}$

=> $7(2x + 3y) = 11(3x - 4y)$

=> $14x + 21y = 33x - 44y$

=> $33x - 14x = 21y + 44y$

=> $19x = 65y$

=> $\frac{x}{y} = \frac{65}{19}$

=> Ans - (A)

Question 3

Find the value of $\sqrt{(2x-5)^2} + 2\sqrt{(x-1)^2}$, **if 1<x<2.**

A 1

B 2

C 3

D 4

   Answer: C

Question 4

The pair of equations are 7x+8ky-16=0 and 14x+112y-21=0. Find the value of 'k' for which the system is inconsistent.

A 2

B 3

C 5

D 7

   Answer: D

Explanation:
Equations : 7x+8ky-16=0 and 14x+112y-21=0

For two equations to be inconsistent (no solution), the ratio of coefficients of both equations must be of the form = $\frac{a_1}{b_1} = \frac{a_2}{b_2} \neq \frac{c1}{c2}$

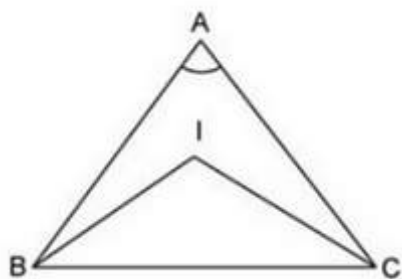$$\Rightarrow \frac{7}{14} = \frac{8k}{112} \neq \frac{-16}{-21}$$

$$\Rightarrow \frac{k}{14} = \frac{1}{2}$$

$$\Rightarrow k = \frac{14}{2} = 7$$

=> Ans - (D)

Question 5

Calculate the angle BAC if the angle BIC = $125°$ and 'I' be the in-center of the triangle?

A $50°$

B $60°$

C $70°$

D $80°$

Answer: C

Explanation:

Given : $\angle$ BIC = $125°$ and I is the incentre of the triangle

To find : $\angle$ BAC

Solution : Incentre of a triangle = $90° + \frac{1}{2} \times$ (angle opposite to it)

$$\Rightarrow 125° = 90° + \frac{\angle A}{2}$$

$$\Rightarrow \frac{\angle A}{2} = 125° - 90° = 35°$$

$$\Rightarrow \angle A = 2 \times 35° = 70°$$

=> Ans - (C)

Question 6

The point where the triangle forms the right angle in the right angled triangle is known as the _____.

A in-centre

B circum-centre

C   centroid

D   ortho-centre

   Answer: D

Explanation:

The point where the triangle forms the right angle in the right angled triangle is known as the **orthocentre**.

Question 7

A has thrice as much amount as that of B and B has 40% more amount than C. If the average of the amount of all three of them is Rs 1320, then what amount (in Rs) A has?

A   2410

B   2520

C   2250

D   3240

   Answer: B

Explanation:

Let amount with C = $Rs. \, 100x$

=> B's amount = $100x + \left(\frac{40}{100} \times 100x\right) = Rs. \, 140x$

=> A's amount = $3 \times 140x = Rs. \, 420x$

Average amount with the three = $\frac{(100x + 140x + 420x)}{3} = 1320$

=> $\frac{660x}{3} = 1320$

=> $220x = 1320$

=> $x = \frac{1320}{220} = 6$

$\therefore$ Amount (in Rs.) that A has = $420 \times 6 = Rs. \, 2520$

=> Ans - (B)

Question 8

Marks of two candidates X and Y are in the ratio of 4 : 7. If the marks of X is 140, then what will be the marks of Y?

A   210

B   180

C 245

D 225

    Answer: C

Explanation:

Ratio of marks of $X : Y = 4 : 7$

Marks of X = 140

=> Y's marks = $\frac{7}{4} \times 140 = 245$

=> Ans - (C)

Question 9

In what ratio salt costing Rs.13/kg mixed with another salt costing Rs.7/ kg to get a mixture costing Rs.9/kg?

A 4 : 7

B 3 : 5

C 2 : 3

D 1 : 2

    Answer: D

Explanation:

Let quantity of Rs. 13/kg and Rs. 7/kg salt mixed be x and y kg respectively.

According to ques,

=> $13x + 7y = 9(x + y)$

=> $13x + 7y = 9x + 9y$

=> $13x - 9x = 9y - 7y$

=> $4x = 2y$

=> $\frac{x}{y} = \frac{2}{4} = \frac{1}{2}$

$\therefore$ Required ratio = $1 : 2$

=> Ans - (D)

Question 10

The average age of 8 members of a group is 36 years. The age of the eldest member is 32 years. If we exclude that eldest member from the group, then what will be the average age (in years) of the remaining members?

A 38.5

B   42.67

C   48.5

D   36.57

    Answer: D

Explanation:

Average age of 8 members of a group = 36 years

=> Total age of 8 members = $36 \times 8 = 288$

Age of eldest member = 32 years

Average age (in years) of the remaining members= $\frac{(288-32)}{7}$

= $\frac{256}{7} = 36.57$

=> Ans - (D)

Question 11

Rs 10000 is kept at compound interest at an interest rate of 18% per annum (compounding annually). If the compounding of interest is done half yearly, then how much more interest (in Rs) will be obtained?

A   243

B   324

C   81

D   162

    Answer: C

Explanation:

Principal sum = Rs. 10,000

Time period = 1 year and rate of interest = 18%

=> Difference between compound interest compound annually and half yearly = $\left[P(1+\frac{R}{200})^{2T} - P\right] - \left[P(1+\frac{R}{100})^T - P\right]$

= $P[(1+\frac{18}{200})^2 - (1+\frac{18}{100})^1]$

= $10,000[(1+\frac{9}{100})^2 - (1+\frac{18}{100})]$

= $10,000[(\frac{109}{100})^2 - (\frac{118}{100})]$

= $10,000[\frac{(109)^2 - (118\times100)}{10000}]$

= $11881 - 11800 = Rs.\ 81$

=> Ans - (C)

Question 12

Rahul professes to lose 16% on selling sugar and uses a weight of 680 gm instead of 1 kg. What is the total profit percentage?

A   23.53

B   16

C   28.57

D   19.24

   Answer: A

Explanation:

Let cost price of 1 kg sugar = Rs. 1000   (1 gm sugar cost Re. 1)

=> Cost price of 1 kg sugar (680 gm in reality) = Rs. 680

Selling price after 16% loss of 1 kg sugar = $1000 - \left(\frac{16}{100} \times 1000\right) = Rs.\ 840$

$\therefore$ Profit % = $\frac{(840-680)}{680} \times 100$

= $\frac{400}{17} = 23.529 \equiv 23.53\%$

=> Ans - (A)

Question 13

Two successive discounts of 5% and 15% are given by Rakesh on a table. If the marked price of the table is Rs 2000, then what is the value (in Rs) of discount?

A   385

B   425

C   330

D   500

   Answer: A

Explanation:

Marked price = Rs. 2000

Amount deducted on 1st discount of 5% = $\frac{5}{100} \times 2000 = Rs.\ 100$

Thus, net price = $2000 - 100 = Rs.\ 1900$

Amount deducted on 2nd discount of 15% = $\frac{15}{100} \times 1900 = Rs.\ 285$

=> Value (in Rs) of discount = $100 + 285 = 385$

=> Ans - (A)

Question 14

What is the square root of $\frac{(3-2\sqrt{2})}{(3+2\sqrt{2})}$?

A $3 - 2\sqrt{2}$

B $3 + 2\sqrt{2}$

C 1

D $$$17$$

   Answer: A

Explanation:

Expression : $\frac{(3-2\sqrt{2})}{(3+2\sqrt{2})}$

Rationalizing the denominator,

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

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

$= \frac{(3-2\sqrt{2})^2}{9-8} = (3-2\sqrt{2})^2$

Thus, square root is $= 3 - 2\sqrt{2}$

=> Ans - (A)

Question 15

A certain number of men can complete a book in 10 days. If there were three more men, then book could be completed in 2 days less. How many men were there in the beginning?

A   8

B   15

C   12

D   10

   Answer: C

Explanation:

Let number of men in the beginning = x

According to ques,

=> $x \times 10 = (x + 3)(10 - 2)$

=> $10x = 8x + 24$

=> $10x - 8x = 2x = 24$

=> $x = \frac{24}{2} = 12$

Thus, there were **12** men in the beginning.

=> Ans - (C)

Question 16

A boy walking at the speed of 3 km/hr covers a certain distance in 3 hours 40 minutes. If he covers the same distance by cycle in 11 hours, then what is the speed (in km/hr) of cycle?

A   1

B   2

C   4

D   3

   Answer: A

Explanation:

Walking speed of boy = 3 km/hr

Distance covered by boy in 3 hours and 40 minutes = $3 \times \left(3\frac{40}{60}\right)$

= $3 \times \left(3 + \frac{2}{3}\right) = 3 \times \frac{11}{3} = 11$ km

Now, time taken to cover 11 km on cycle = 11 hours

=> Speed of cycle = $\frac{11}{11} = 1$ km/hr

=> Ans - (A)

Instructions

The pie chart shows the number of elephants in all the elephant wild life sanctuaries in the country. Study the diagram and answer the following questions.

NO OF ELEPHANTS

G, 600   A, 600

F, 400   B, 350

E, 750   C, 900

D, 400
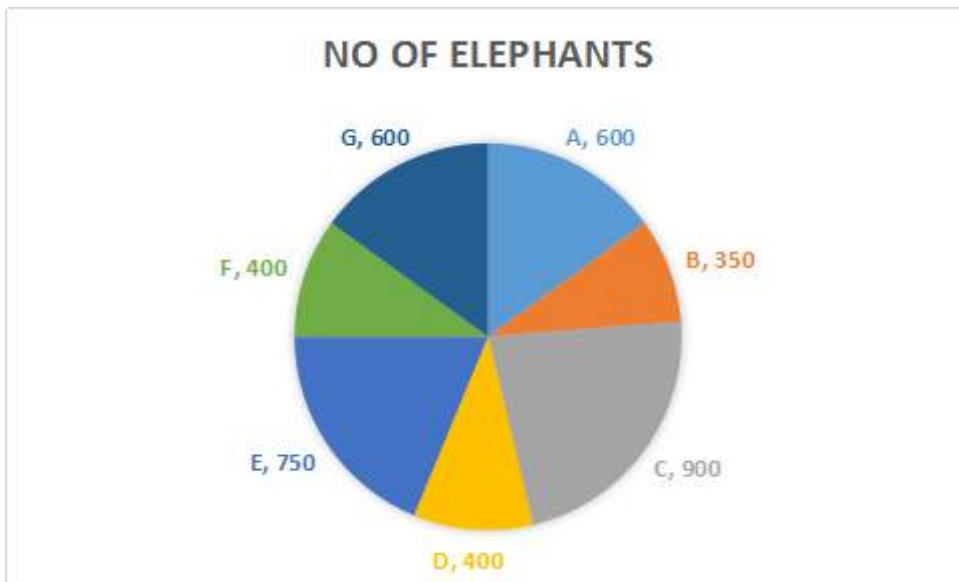
Question 17

The least number of elephants are in which sanctuary?

A C

B D

C G

D B

   Answer: D

Explanation:

The least number of elephants are in sanctuary **B** = 350

=> Ans - (D)

Question 18

What is the total number of elephants in these sanctuaries?

A 4500

B 3000

C 4000

D 3500

   Answer: C

Explanation:

Total number of elephants in these sanctuaries

= 600 + 350 + 900 + 400 + 750 + 400 + 600

= 4000

=> Ans - (C)

Question 19

The measure of the central angle of the sector representing the number of elephants in Sanctuary D is _____ degrees.

A   40

B   45

C   36

D   30

    Answer: C

Explanation:

Number of elephants in Sanctuary D = 400

Total number of elephants in these sanctuaries

= 600 + 350 + 900 + 400 + 750 + 400 + 600 = 4000

=> Required central angle = $\frac{400}{4000} \times 360°$

= $\frac{360°}{10} = 36°$

=> Ans - (C)

Question 20

If the average area occupied by each elephant in these sanctuaries is 50 sq km, then what is the total area (in 1000 sq km) of these sanctuaries?

A   200

B   150

C   100

D   300

    Answer: A

Explanation:

Total number of elephants in these sanctuaries

= 600 + 350 + 900 + 400 + 750 + 400 + 600 = 4000

Average area occupied by each elephant in these sanctuaries = 50 sq km

=> Total area (in 1000 sq km) of these sanctuaries = $4 \times 50 = 200$

=> Ans - (A)

Instructions

For the following questions answer them individually

Question 21

The area of an equilateral triangle is $36\sqrt{3}cm^2$. Find its side (in cm).

A   6

B   24

C   12

D   36

Answer: C

Explanation:

Let side of equilateral triangle = s cm

Area of equilateral triangle = $\frac{\sqrt{3}}{4}(s)^2 = 36\sqrt{3}$

=> $s^2 = 36 \times 4$

=> $s = \sqrt{6 \times 6 \times 2 \times 2}$

=> $s = 6 \times 2 = 12$ cm

=> Ans - (C)

Question 22

If the sum of the interior angles of a regular polygon is $540°$ then how many sides does it have?

A   6

B   8

C   5

D   9

Answer: C

Explanation:

Let number of sides of the polygon = n

Sum of interior angles of a regular polygon = $(n-2) \times 180°$

=> $(n-2) \times 180° = 540°$

$$=> n - 2 = \frac{540}{180} = 3$$

$$=> n = 3 + 2 = 5$$

=> Ans - (C)

Question 23

The curved surface area and the diameter of a right circular cylinder are $132 cm^2$ and 7 cm respectively. Find its height (in cm).

A 7

B 8

C 9

D 6

   Answer: D

Explanation:
Let height of cylinder = h cm and radius, $r = \frac{7}{2}$ cm

Curved surface area = $2\pi rh = 132$

$=> 2 \times \frac{22}{7} \times \frac{7}{2} \times h = 132$

$=> 22h = 132$

$=> h = \frac{132}{22} = 6$ cm

=> Ans - (D)

Question 24

ΔXYZ is right angled at Y. If m∠X = 30°, then find the value of (cosZ + 1/3).
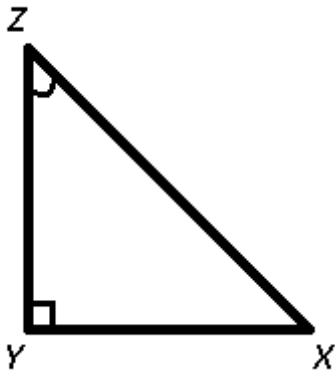
A $\frac{(2+\sqrt{3})}{2}$

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

C $1 + \sqrt{3}$

D $\frac{5}{6}$

   Answer: D

Explanation:

Sum of angles of $\triangle$ XYZ = $\angle X + \angle Y + \angle Z = 180°$

=> $30° + 90° + \angle Z = 180°$

=> $\angle Z = 180° - 120° = 60°$

To find : $\left(\cos Z + \frac{1}{3}\right)$

= $cos(60°) + \frac{1}{3}$

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

= $\frac{5}{6}$

=> Ans - (D)

Question 25

In ΔXYZ measure of angle Y is 90°. If tanX = 15/8, and XY = 16cm, then what is the length (in cm) of side YZ?

A 34

B 30

C 15

D 14

Answer: B

Explanation:
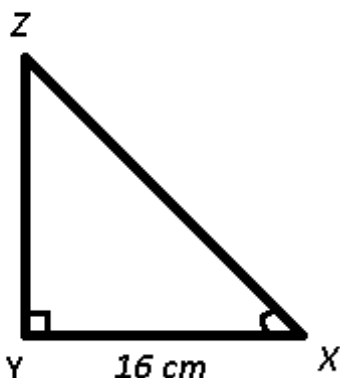
Given : XY = 16 cm and tanX = 15/8

To find : YZ = ?

Solution : In right $\triangle$ XYZ,

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

=> $\frac{15}{8} = \frac{YZ}{16}$

=> $YZ = \frac{15}{8} \times 16 = 30$ cm

=> Ans - (B)

Reasoning

Instructions
For the following questions answer them individually

Question 26

In the following question, select the related word pair from the given alternatives.
Balance : Mass : : ? : ?

A   Speed : Odometer

B   Second : Time

C   Thermometer : Temperature

D   Ammeter : Wind

   Answer: C

Explanation:
Expression = Balance : Mass : : ? : ?

First is used to measure second, i.e. Spring balance is used to measure mass, similarly a thermometer measure temperature.

=> Ans - (C)

Question 27

In the following question, select the related number from the given alternatives.
54 : 135 : : 32 : ?

A   90

B   80

C 65

D 74

   Answer: B

Explanation:

Expression = 54 : 135 : : 32 : ?

The numbers are of the form = $n : 2.5n$

Eg :- $2.5 \times 54 = 135$

Similarly, $2.5 \times 32 = 80$

=> Ans - (B)

Question 28

In the following question, select the related letter/letters from the given alternatives.
RTK : NPG : : XSP : ?

A   TPM

B   SOM

C   SPL

D   TOL

   Answer: D

Explanation:

Expression = RTK : NPG : : XSP : ?

The pattern followed is :

R	T	K
(-4)	(-4)	(-4)
N	P	G

Similarly, for XSP : **TOL**

X	S	P
(-4)	(-4)	(-4)
T	O	L

=> Ans - (D)

Question 29

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

A   Ant - Insect

B   Chair - Furniture

C   Sketch pen - Stationery

D   Bird - Parrot

   Answer: D

Explanation:

First is one of the types of second, ant is an insect, chair is a part of furniture and sketch pen is a stationary, hence **Bird - Parrot** is the odd one out, since its order is reversed.

=> Ans - (D)

Question 30

In the following question, four number pairs are given. The number on left side of (-) is related to the number on 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

A   12 - 8

B   28 - 24

C   66 - 62

D   84 - 76

   Answer: D

Explanation:

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

But in the last option => $84 - 76 = 8$

Thus, (84 - 76) is the odd one out.

=> Ans - (D)

Question 31

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

A   RNJ

B   TPL

C   AWS

D   EBX

Answer: D

Explanation:

(A) : R (-4 letters) = N (-4 letters) = J

(B) : T (-4 letters) = P (-4 letters) = L

(C) : A (-4 letters) = W (-4 letters) = S

(D) : E (**-3** letters) = B (-4 letters) = X

=> Ans - (D)

Question 32

From the given alternatives, according to dictionary, which word will come at FIRST position?
1. Packing
2. Panda
3. Painless
4. Pacts
5. Panic

A Panda

B Pacts

C Painless

D Packing

Answer: D

Explanation:

As per the order of dictionary :

= Packing -> Pacts -> Painless -> Panda -> Panic

Thus, the first word = **Packing**

=> Ans - (D)

Question 33

In the following question, select the missing number from the given series.
60, - 52, 44, - 36, 28, ?

A - 18

B - 12

C - 24

D - 20

    Answer: D

Explanation:

Decreasing multiples of 16 are alternatively subtracted and added respectively.

60 - 112 = -52

-52 + 96 = 44

44 - 80 = -36

-36 + 64 = 28

28 - 48 = **-20**

=> Ans - (D)

Question 34

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
L, P, T, ?, B, F, ?

A   X, J

B   Y, K

C   W, I

D   Y, J

    Answer: A

Explanation:

Series : L, P, T, ?, B, F, ?

The pattern followed is :

L (+4 letters) = P (+4 letters) = T (+4 letters) = **X** (+4 letters) = B (+4 letters) = F (+4 letters) = **J**

=> Ans - (A)

Question 35

Ankit walks 17 km towards east. He turn left and walks 17 km. He turns left again and walks 24 km to reach point A. What is the straight line distance (in km) between the starting point and point A?

A   13√2

B   14√4

C   4√2

D   11√2

Answer: A

Question 36

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

A   Ring

B   Spring

C   Nothing

D   Sun

   Answer: C

Explanation:

The word UNINSPIRING does not contain any 'O' or 'T' or 'H', thus the term **Nothing** cannot be formed.

=> Ans - (C)

Question 37

In a certain code language, "MAID" is written as "13194" and "TEAR" is written as "205118". How is "OHMS" written in that code language?

A   198135

B   6191312

C   1213195

D   1581319

   Answer: D

Explanation:

The letters are numbered based on their position according to the English alphabetical order. A=1 , B=2 , C=3 , D=4 and so on.

Eg :- MAID = 13,1,9,4 -> 13194

TEAR = 20,5,1,18 -> 205118

Similarly, OHMS = 15,8,13,19 -> **1581319**

=> Ans - (D)

Question 38

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

16 - 2 + 35 x 20 ÷ 2 = ?

A 13

B 29

C 11

D 32

Answer: A

Explanation:

Expression : 16 - 2 + 35 x 20 ÷ 2 = ?

$\equiv 16 \div 2 - 35 + 20 \times 2$

$= 8 - 35 + 40$

$= 48 - 35 = 13$

=> Ans - (A0

Question 39

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

14 - 6 x 30 ÷ 10 + 4 = 28

A - and +

B ÷ and x

C x and +

D - and ÷

Answer: A

Explanation:

Expression : 14 - 6 x 30 ÷ 10 + 4 = 28

(A) : - and +

$\equiv 14 + 6 \times 30 \div 10 - 4 = 28$

L.H.S. = $14 + \left(6 \times \frac{30}{10}\right) - 4$

$= 14 + (6 \times 3) - 4 = 28 = $ R.H.S.

=> Ans - (A)

Question 40

If 8&4 = 64, 5&8 = 80 and 8&1 = 16, then find the value of 9&9 = ?

A   124

B   40

C   162

D   28

   Answer: C

Explanation:

Given : 8&4 = 64, 5&8 = 80 and 8&1 = 16

If we replace '&' with 'x' and also multiply the final result with '2', then we will get the desired result.

Eg :- $2 \times (8 \times 4) = 64$

and $2 \times (5 \times 8) = 80$ and $2 \times (8 \times 1) = 16$

Similarly, $2 \times (9 \times 9) = 162$

=> Ans - (C)

Question 41

Which of the following terms follows the trend of the given list?
XYXXXXXY, XXYXXXXY, XXXYXXXY, XXXXYXXY, XXXXXYXY, _____.

A   YXXXXXXY

B   XYXXXXXY

C   XXXXXXYY

D   XXYXXXXY

   Answer: C

Explanation:

Expression : XYXXXXXY, XXYXXXXY, XXXYXXXY, XXXXYXXY, XXXXXYXY, _____.

The pattern followed is that in each term there are combinations of 6 X's and 2 Y's in which last letter is always 'Y and the position of second Y keeps shifting one place to the right starting from second position.

Thus, in the missing term, the second last term will be 'Y' = **XXXXXXYY**

=> Ans - (C)

Question 42

Two horse drawn wagons start from the same farm. Wagon X travels South 4.5 km and then turns right and travels 7.5 km. In the mean while wagon Y travels 9 km North, then 3.5 km West, then 2 km North , then it turns left and travels 4 km. Where is wagon Y with respect to wagon X?

A 6.5 km North

B 15.5 km North

C 15.5 km South

D 6.5 km South

Answer: 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 papers are tabloids
Statement II: No magazines are papers

Conclusion I: No tabloids are magazines
Conclusion II: All magazines are tabloids

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

Question 44

In the following figure, rectangle represents Fashion designers, circle represents Equestrians, triangle represents Campers and square represents Golfers. Which set of letters represents Equestrians who are not Fashion designers?
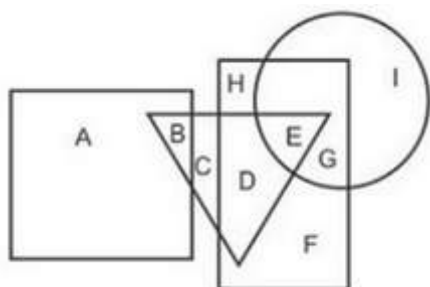
A   EG

B   DEG

C   I

D   E

    Answer: C

Question 45

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
UPY, QLU, MHQ, IDM, ?

A   FYI

B   EYJ

C   EZI

D   FZJ

    Answer: C

Explanation:

Series : UPY, QLU, MHQ, IDM, ?

The pattern followed in each letter of the terms is :

1st letter : U (-4 letters) = Q (-4 letters) = M (-4 letters) = I (-4 letters) = E

2nd letter : P (-4 letters) = L (-4 letters) = H (-4 letters) = D (-4 letters) = Z

3rd letter : Y (-4 letters) = U (-4 letters) = Q (-4 letters) = M (-4 letters) = I

Thus, missing term = **EZI**

=> Ans - (C)

Question 46

In the following question, select the missing number from the given series.
147, 153, 159, ?, 171, 177

A   161

B   164

C   168

D   165

   Answer: D

Explanation:

'6' is added to all the numbers.

147 + 6 = 153

153 + 6 = 159

159 + 6 = **165**

165 + 6 = 171

171 + 6 = 177

=> 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   (12, 35, 59)

B   (16, 47, 79)

C   (19, 57, 94)

D   (9, 26, 44)

   Answer: C

Explanation:

The numbers are of the form : $(x, 3x - 1, 5x - 1)$

But in the third option, we have = $3 \times 19 - 1 = 56 \neq 57$

Thus, (19, 57, 94) is the odd one out.

=> Ans - (C)

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?

A

B

C

D
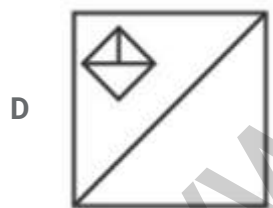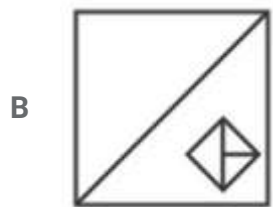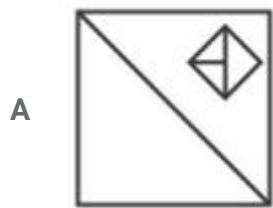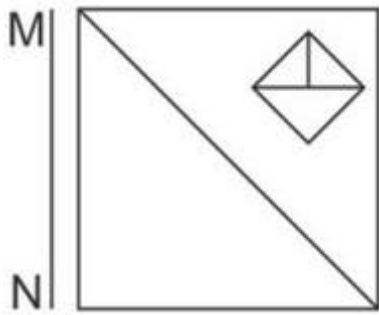
Answer: D

Question 49

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

137489

A

B

C

D
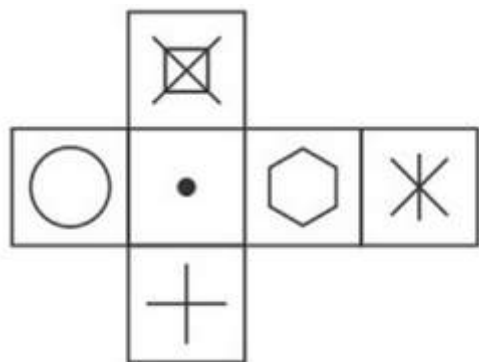
Answer: A

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 'IC can be represented by 23, 41 etc and 7 can be represented by 59, 67 etc. Similarly, you have to identify the set for the word 'NAME'

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

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

A   24,59,30,99

B   65,12,32,24

C   10,68,14,95

D   30,85,44,75

   Answer: B

Explanation:

(A) : 24,59,30,99 = EPDT

(B) : 65,12,32,24 = **NAME**

(C) : 10,68,14,95 = MXIV

(D) : 30,85,44,75 = DOEN

=> Ans - (B)

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

Writing therapy posit that writing about one's (a)/ feelings gradually eases the impact (b)/ of emotional trauma. (c)/ No error (d)

A   a

B   b

C   c

D   d

   Answer: A

Question 52

The rotational period and seasoned cycles of the Mars are (a)/ similar to those of the Earth, as (b)/ is the tilt that produces the seasons. (c)/ No error (d)

A   a

B   b

C   c

D   d

   Answer: A

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

They _____ the storm approaching.

A   seen

B   looked

C   admired

D   saw

   Answer: D

Question 54

This is _____ worse than I thought it would be.

A   far

B   about

C   more

D   the

   Answer: A

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

Munificent

A   Stingy

B   Generous

C   Careful

D   Sparse

   Answer: B

Question 56

Fledgling

A   Wild

B   Apprentice

C   Fugitive

D   Ancient

   Answer: B

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

Squall

A   Wind

B   Scream

C   Cry

D   Peace

   Answer: D

Question 58

Inquisite

A   Examine

B   Interrogate

C   Dig

D   Ignore

   Answer: D

Instructions
For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.
Pablo Picasso
P : showed his truly
Q : a very young age
R : exceptional talent from

A   RQP

B   PQR

C   PRQ

D   RPQ

   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.

Someone has collected the papers.

A   The papers have been collected by someone.

B   The papers are collected by someone.

C   The papers are being collected.

D   The papers is collected by someone.

   Answer: A

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.

Mr. Pattinson said, "I brought a chocolate for you."

A   Mr. Pattinson brought a chocolate for me.

B   Mr. Pattinson said that he had brought a chocolate for me.

C   A chocolate was brought by Mr. Pattinson for me.

D   Mr. Pattinson said he brought a chocolate for me.

   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   Exipberamce

B   Exuberance

C   Axuberence

D   Exubereance

   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.

In order to reason _____ it is not merely necessary to have a good intellect. An athlete may have the proper _____, good framework, and symmetrical muscles, but he cannot expect to cope _____ others of his kind unless he has learned to develop _____ muscles and to use them to the best advantage. And, in the same way, the man who wishes to reason correctly must develop his intellectual faculties and must also learn the art _____ using them to the best advantage.

Question 63

In order to reason _____ it is not merely

A correct

B correction

C correctness

D correctly

   Answer: D

Question 64

have the proper _____, good framework

A proportional

B proportionally

C proportioned

D proportions

   Answer: D

Question 65

expect to cope _____ others of his kind

A by

B with

C thus

D so

   Answer: B

Question 66

to develop _____ muscles

A   this

B   that

C   them

D   those

Answer: D

Question 67

learn the art _____ using them to the

A   for

B   of

C   from

D   off

Answer: B

Instructions

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

Question 68

Every dog has his day

A   The weakest will become the strongest, that is the cycle of life.

B   Everyone will have good luck at some point in their lives.

C   Loyalty will not go unrewarded.

D   Every person has a talent, and one will discover it one day.

Answer: B

Question 69

I can't think straight

A   Accept that the puzzle is too difficult for you.

B   Faced with a dilemma.

C   Cannot think rationally due to being overwhelmed with emotion.

D   Ask for advice on a difficult problem.

Answer: C

Instructions

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

Question 70

Regard something as being due to a cause

A   Adventitious

B   Superfluous

C   Incidental

D   Ascribe

Answer: D

Question 71

Showing poor taste and quality

A   Savour

B   Pike

C   Tacky

D   Exquisite

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

The cost of a cylinder then (was) about ₹18.

A   is

B   are

C   were

D   no improvement

   Answer: D

Question 73

Great personalities (has attained) their heights by doing things differently

A   have attained

B   have attain

C   have attaining

D   no improvement

   Answer: A

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.
With global warming on
A-the rise, we have to do
B-save the environment
C-every bit that we can to

A   ABC

B   ACB

C   CAB

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   annexeations

B   anexations

C   annexations

D   anexeations

Answer: C

General Awareness

Instructions

For the following questions answer them individually

Question 76

Who among the following has classified money in to two types on the basis of its nature?

A   John Maynard Keynes

B   Adam Smith

C   Karl Marx

D   Milton Friedman

Answer: A

Question 77

SIDO is related to the development of which of the following?

A   Small industry

B   Steel industry

C Software industry

D Sugar industry

   Answer: A

Question 78

Bahmani ruler Tajuddin Firuz married the daughter of which of the following Vijayanagara rulers?

A Harihar II

B Devaraya I

C Devaraya II

D Krishnadevaraya

   Answer: B

Question 79

In whose reign, the office of the Vakil was abolished?

A Akbar

B Jahangir

C Shah Jahan

D Aurangzeb

   Answer: C

Question 80

Angel Falls is situated on which river?

A Amazon

B Orinoco

C Caroni

D Parana

   Answer: C

Question 81

The southern boundary of India's mainland is _____.

A   6° 4 N

B   7° 4 N

C   8° 4 N

D   6° 8 N

Answer: C

Question 82

Jain literature is also called as _____.

A   Pitaka

B   Agam

C   Kalpa

D   Sutt

Answer: B

Question 83

In a bid to boost their bilateral strategic partnership and to increase defence co-operation, India and which of the following countries held their inaugural Foreign Secretaries and Defence Secretaries dialogue in New Delhi on December 12, 2017?

A   Japan

B   Singapore

C   Australia

D   South Africa

Answer: C

Question 84

In January 2018, Dr. Vinod Paul became first Indian to be awarded prestigious Ihsan Dogramaci Family Health Foundation Prize by World Health Organisation (WHO). He is a member of _____.

A   NITI Aayog

B   UPSC

C   Lok Sabha

D   Rajya Sabha

   Answer: A

Question 85

Nepali language is written in which script?

A   Uchen

B   Tirhuta

C   Devanagari

D   No option is correct.

   Answer: C

Question 86

Which of the following statements is CORRECT?

A   NaCl has same equivalent weight and molecular weight.

B H_2SO_4 has same equivalent weight and molecular weight.

C $CaCl_2$ has same equivalent weight and molecular weight.

D Na_2SO_4 has same equivalent weight and molecular weight

   Answer: A

Question 87

Which of the following wave CANNOT propagate in a vacuum?

A   X-rays

B   Radio waves

C   UV-rays

D Ultrasonic waves

Answer: D

Question 88

Which among the following is NOT a level of Government in India?
I. Local level government
II. State level government
III. National level government

A Only I

B Only II

C Only III

D No option is correct.

Answer: D

Question 89

The idea of people's participation in the Panchayati Raj System extends to how many other levels?

A 1

B 2

C 4

D 5

Answer: B

Question 90

In sexual reproduction the male gametes are generally _____.

A Only motile

B Only small

C Both motile and small

D Only food stores

Answer: C

Question 91

Which tissue provides support to plants and also stores food?

A   Parenchyma

B   Collenchyma

C   Sclerenchyma

D   No option is correct.

   Answer: A

Question 92

Where was the India's first 'All India Institute of Ayurveda (AIIA)' inaugurated on 'Ayurveda Day', 17th October 2017?

A   Mumbai

B   Dehradun

C   New Delhi

D   Bangalore

   Answer: C

Question 93

Which region of India is set to get the country's first ever 'Air Dispensary'?

A   Eastern Ghats

B   Northeastern states

C   Coastal plains

D   Jammu and Kashmir

   Answer: B

Question 94

Which expert committee has been constituted by Reserve Bank of India to look into the issues relating to classification of bad loans, effectiveness of audits and rising incidents of frauds?

A   Vinay Sheel Oberoi Committee

B   N. Gopalaswami Committee

C   Y. H. Malegam Committee

D   N. Chandrashekhar Committee

   Answer: C

Question 95

On 24 January 2018, the Ministry of Women and Child Development launched a Management Information System (MIS) portal for the _____.

A   Scheme for Adolescent Girls

B   Scheme for Widow women

C   Scheme for Acid attack victims

D   Anganwadi Services Training Programme

   Answer: D

Question 96

What is the heat released by a heating filament rated 24 W when it is kept on for 6 seconds?

A   4

B   144

C   72

D   8

   Answer: B

Question 97

When the vibrating object moves backwards, it creates a region of low pressure in the medium called _____.

A   elongation

B   perpetuation

C   gyration

D   rarefaction

   Answer: D

Question 98

Many marine animals use _____ dissolved in sea-water to make their shells.

A   acids

B   alkalis

C   silica

D   carbonates

   Answer: D

Question 99

Which of the statements given below are correct?
A) Zhansaya Abdumalik won the Chess 2017 Women's World Junior Chess Championship.
B) In 2017, Marc Marquez raced in MotoGP for Yamaha.
C) Zhu Yuling won the Tennis 2017 Wimbledon Championships Women's Singles.

A   Only A

B   Both A and C

C   Both B and C

D   No option is correct.

   Answer: A

Question 100

In HTML, _____ attribute is used for merging of two or more adjacent columns.

A   CELLPADDING

B   CELLSPACING

C   ROWSPAN

D   COLSPAN

Answer: D

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