



SSC CHSL 2 Feb 2017 Evening Shift

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Reasoning

Instructions

For the following questions answer them individually

Question 1

Choose the related word/letters/number from the given alternatives. Nest : Bird :: Den : ?

- A Owl
- B Lion
- C Rat
- D Goat

Answer: B

Explanation:

Expression = Nest : Bird :: Den : ?

A bird lives in a nest, similarly a *lion* lives in a den.

=> Ans - (B)

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Question 2

Choose the related word/letters/number from the given alternatives. NPR : GHI :: TVX : ?

- A JKL
- B KLM
- C IJK
- D IKL

Answer: A

Explanation:

Expression = NPR : GHI :: TVX : ?

The pattern followed is that the numerical values of the alphabets in the first set of letters is double of that of the second.

Eg :- N = 14 and G = 7

N	P	R
÷2↓	÷2↓	÷2↓
G	H	I

Similarly, for TVX, we have T = 20, V = 22 and X = 24 => Half of these are 10 = J, 11 = K and 12 = L

T	V	X
÷2↓	÷2↓	÷2↓
J	K	L

=> Ans - (A)

Question 3

Choose the related word/letters/number from the given alternatives. AF : BE :: ? : DH

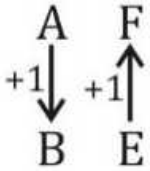
- A CH
- B CG
- C DG
- D CI

Answer: D

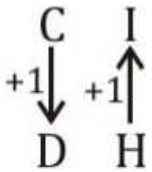
Explanation:

Expression = AF : BE :: ? : DH

The pattern followed is :



Similarly, for DH :



=> Ans - (D)

Question 4

Choose the related word/letters/number from the given alternatives.

36 : 6 :: 441 : ?

- A 11
- B 21
- C 25
- D 32

Answer: B

Explanation:

Expression = 36 : 6 :: 441 : ?

The pattern followed is = $x : \sqrt{x}$

Eg :- $36 : \sqrt{36} = 36 : 6$

Similarly, $\sqrt{441} = 21$

=> Ans - (B)

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Question 5

Choose the odd word/letters/number/number pair from the given alternatives.

- A Violet
- B Blue

C Indigo

D White

Answer: D

Explanation:

Violet, Indigo and Blue are the colours of a rainbow, hence white is the odd one out.

=> Ans - (D)

Question 6

Choose the odd word/letters/number/number pair from the given alternatives.

A MPS

B WZC

C FHJ

D ADG

Answer: C

Explanation:

(A) : M (+3 letters) = P (+3 letters) = S

(B) : W (+3 letters) = Z (+3 letters) = C

(C) : F (+2 letters) = H (+2 letters) = J

(D) : A (+3 letters) = D (+3 letters) = G

=> Ans - (C)

Question 7

Choose the odd word/letters/number/number pair from the given alternatives.

A 512

B 841

C 576

D 289

Answer: A

Explanation:

$$512 = (8)^3$$

$$841 = (29)^2$$

$$576 = (24)^2$$

$$289 = (17)^2$$

Thus, 512 is the odd one out.

=> Ans - (A)

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Question 8

Choose the odd word/letters/number/number pair from the given alternatives.

- A 165
- B 792
- C 852
- D 671

Answer: C

Explanation:

The positive difference of the first two digits is equal to the third digit, but $8 - 5 \neq 2$, hence 852 is the odd one out.

=> Ans - (C)

Question 9

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. Asia, Africa, North America, ?

- A China
- B Australia
- C Canada
- D Japan

Answer: B

Explanation:

Continents of the world are given :

= Asia -> Africa -> North America -> Australia

=> Ans - (B)

Question 10

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. DP, EY, FJ, ?

- A GX
- B GS
- C GT
- D GW

Answer: D

Explanation:

Expression : DP, EY, FJ, ?

The pattern followed in each letter of the terms is :

1st letter : D (+1 letter) = E (+1 letter) = F (+1 letter) = G

2nd letter : P (+9 letters) = Y (+11 letters) = J (+13 letters) = W

Thus, missing term = **GW**

=> Ans - (D)

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Question 11

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. DAF, FED, HIB, ?

- A JMZ
- B JOY
- C LUX
- D JOZ

Answer: A

Explanation:

Expression : DAF, FED, HIB, ?

The pattern followed in each letter of the terms is :

1st letter : D (+2 letters) = F (+2 letters) = H (+2 letters) = J

2nd letter : A (+4 letters) = E (+4 letters) = I (+4 letters) = M

3rd letter : F (-2 letters) = D (-2 letters) = B (-2 letters) = Z

Thus, missing term = **JMZ**

=> Ans - (A)

Question 12

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. 1, 7, 42, 210, 840, ?

- A 1240
- B 2640
- C 1680
- D 2520

Answer: D

Explanation:

Consecutive natural numbers in decreasing order are multiplied

$$1 \times 7 = 7$$

$$7 \times 6 = 42$$

$$42 \times 5 = 210$$

$$210 \times 4 = 840$$

$$840 \times 3 = \mathbf{2520}$$

=> Ans - (D)

Question 13

In the following question, two statements are given each followed by two conclusions I and II. You have to consider the statements to be true even if they seem 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) Children play in the playground.

(II) It gives them a different approach of problem solving and decision making.

Conclusions:

(I) Playing outdoor is very necessary for overall development of child. (II) There should be balance between playing and studying for a child.

- A Only conclusion II follows
- B Conclusion I and II both follow
- C Neither I nor II follow
- D Only conclusion I follows

Answer: D

Explanation:

Playing outdoor gives them a different approach of problem solving and decision making which results in development of the child. Hence Conclusion I follows the given statements.

In the statements there is no information about studying, hence conclusion II do not follow the given statements

Hence, the correct answer is Option D

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Question 14

C has more money than E and E has more money than B. C is the second richest after A. Who has the least money out of A, B, C and E?

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

Answer: C

Explanation:

C has more money than E and E has more money than B, $\Rightarrow C > E > B$

C is the second richest after A, $\Rightarrow A > C$

Combining above statements, we get : $A > C > E > B$

\therefore B has the least money out of A, B, C and E.

\Rightarrow Ans - (C)

Question 15

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

i. Monopoly ii. Manifesto iii. Manifold iv. Mankind

- A ii, iii, iv, i
- B iii, ii, iv, i

C i, iii, iv, ii

D i, iv, iii, ii

Answer: A

Explanation:

As per the order of dictionary :

= Manifesto -> Manifold -> Mankind -> Monopoly

≡ ii, iii, iv, i

=> Ans - (A)

Question 16

In a certain code language, "HISTORY" is written as "XQNSRHI". How is "ETHICS" written in that code language?

A DSGHBR

B RBHGSF

C RBHDSG

D GSDRBH

Answer: B

Explanation:

"HISTORY" is written as "XQNSRHI"

The pattern followed when we reverse the word is :

Y	R	O	T	S	I	H
(-1)	(-1)	(-1)	(-1)	(-1)	(-1)	(+1)
X	Q	N	S	R	H	I

Similarly, reverse for ETHICS :

S	C	I	H	T	E
(-1)	(-1)	(-1)	(-1)	(-1)	(+1)
R	B	H	G	S	F

=> Ans - (B)

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Question 17

In the following question select the missing number of the given series

6	10	9
7	2	1
3	4	?

A 9

B 8

C 6

D 7

Answer: C

Explanation:

The sum of each column is same.

$$\text{Eg :- } 6 + 7 + 3 = 16$$

$$\text{and } 10 + 2 + 4 = 16$$

$$\text{Similarly, } 9 + 1 + x = 16$$

$$\Rightarrow x = 16 - 10 = 6$$

\Rightarrow Ans - (C)

Question 18

If "S" denotes "multiplied by", "V" denotes "subtracted from", "M" denotes "added to" and "L" denotes "divided by", then $96 \text{ L } 8 \text{ S } 4 \text{ V } 16 \text{ M } 9 = ?$

A 32

B 37

C 41

D 48

Answer: C

Explanation:

Expression : $96 \text{ L } 8 \text{ S } 4 \text{ V } 16 \text{ M } 9 = ?$

$$\equiv 96 \div 8 \times 4 - 16 + 9$$

$$= (12 \times 4) - 7$$

$$= 48 - 7 = 41$$

\Rightarrow Ans - (C)

Question 19

In the following question, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
 $c_e_cd_f_d_f$

A dfcec

B dfece

C cfede

D cdfed

Answer: B

Explanation:

The pattern followed is that in groups of 4, the term 'cdef' is repeated.

$$= cdef \ cdef \ cdef$$

\Rightarrow Ans - (B)

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Question 20

A boy and a girl are facing each other. If the boy is standing at the north-west direction of the girl, in which direction is the girl to the boy?

A North

- B South
- C East
- D South-east

Answer: D

Explanation:

The boy is standing at the north-west direction of the girl.

Thus, opposite of north-west is south-east

Thus, the girl is **South-east** from the boy

=> Ans - (D)

Question 21

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, 'R' can be represented by 12, 23 etc. and 'G' can be represented by 77, 88 etc. Similarly, you have to identify the set for the word 'FRIEND'.

Matrix - I

	0	1	2	3	4
0	L	R	S	T	T
1	E	L	R	S	T
2	D	E	L	R	S
3	O	D	E	L	R
4	Q	O	D	E	L

Matrix - II

	5	6	7	8	9
0	G	N	I	P	Q
5	F	G	N	I	P
6	C	F	G	N	I
7	M	C	F	G	I
8	M	M	C	F	N

- A 76, 23, 85, 21, 78, 20
- B 77, 23, 79, 21, 89, 20
- C 87, 12, 68, 21, 99, 33
- D 98, 23, 68, 96, 78, 20

Answer: B

Explanation:

The letters are:

89 - N

20 - D

23 - R

79 - I

21 - E

77 - F

Question 22

Aryan has a brother named Bishnu. Aryan is the son of Chetan. Dev is Chetan's father. In term of relationship, what is Bishnu of Dev?

- A Grandson
- B Father
- C Brother
- D Cousin

Answer: A

Explanation:

Aryan has a brother named Bishnu and Aryan is the son of Chetan, => Chetan is the father of Aryan and Bishnu.

Also, Dev is Chetan's father, => Dev is grandfather of Aryan and Bishnu.

=> Bishnu is Dev's grandson.

=> Ans - (A)

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Question 23

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

Explanation:

If a mirror is placed on the line MN,

The letter L which is on the right will be on the left in the mirror image

The letter C which is on the left will be on the right in the mirror image

The facing of the symbols to the left and right direction changes to opposite direction in mirror image (right facing changes to left and vice versa)

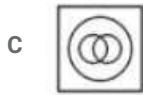
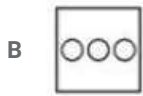
∴ The mirror image of the letters C, G, L and the symbol is shown in the below figure



Hence, the correct answer is Option D

Question 24

Identify the diagram that best represents the relationship among the given classes. Food Supplement, Bournvita, Horlicks



Answer: D

Explanation:

Bournvita and Horlicks are both food supplement but are different from each other.

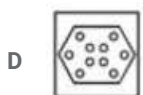
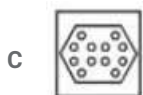
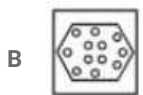
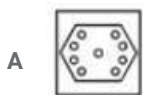
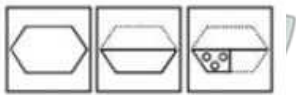
Thus, the venn diagram that best describes above relationship is :



=> Ans - (D)

Question 25

A piece of paper is folded and punched as shown below in the question figures, From the given answer figures, indicate how it will appear when opened.



Answer: C

Explanation:

When the paper is unfolded first to the right, the three circles will appear at the right side similarly.

When the paper is unfolded again to the top, three circles each at the top left part and top right part will appear similarly.

∴ When the paper is unfolded it will appear as shown below



Hence, the correct answer is Option C

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Mathematics

Instructions

For the following questions answer them individually

Question 26

If $\cos 45^\circ - \sec 60^\circ = x$, then the value of x is

A $(\sqrt{3}-4)/2\sqrt{3}$

B 1

C $(1-2\sqrt{2})/\sqrt{2}$

D $(\sqrt{3}+\sqrt{2})/2$

Answer: C

Explanation:

Expression : $\cos 45^\circ - \sec 60^\circ = x$

$$= \frac{1}{\sqrt{2}} - \frac{1}{\cos 60}$$

$$= \frac{1}{\sqrt{2}} - 2$$

$$= \frac{1-2\sqrt{2}}{\sqrt{2}}$$

=> Ans - (C)

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Question 27

A man travels 400 km in, partly by rail and partly by steamer. He spends 9 hours more time on steamer. If the velocity of the steamer is 30 km/hr and the velocity of rail is 70 km/hr, how much distance does he cover by steamer?

A 309 km

B 371 km

C 464 km

D 556 km

Answer: A

Explanation:

Let distance covered by steamer = d km

=> Distance covered by rail = $(400 - d)$ km

Let time taken on rail = t hours and time taken on steamer = $(t + 9)$ hours

Speed of rail = 70 km/hr and speed of steamer = 30 km/hr

Using, speed = distance/time

For steamer, $t+9 = 30$

$$\Rightarrow d = 30t + 270 \text{-----(i)}$$

For rail, $\frac{400-d}{t} = 70$

Substituting value of d from equation (i), we get :

$$\Rightarrow 400 - (30t + 270) = 70t$$

$$\Rightarrow 400 - 270 = 70t + 30t = 100t$$

$$\Rightarrow t = \frac{130}{100} = 1.3 \text{ hours}$$

Substituting value of t in equation (i), $\Rightarrow d = (30 \times 1.3) + 270$

$$= 39 + 270 = 309 \text{ km}$$

Question 28

Raheem sells a machine for Rs 48 lakhs at a loss. Had he sold it for Rs 60 lakh, his gain would have been 5 times the former loss. Find the cost price of the machine.

- A Rs 58 lakhs
- B Rs 69.6 lakhs
- C Rs 42 lakhs
- D Rs 50 lakhs

Answer: D

Explanation:

Let cost price of the machine = Rs. x lakhs

When selling price = Rs. 48 lakhs

$$\Rightarrow \text{Loss} = \text{Rs. } (x - 48) \text{ lakhs}$$

If selling price = Rs. 60 lakhs

$$\Rightarrow \text{Profit} = \text{Rs. } (60 - x) \text{ lakhs}$$

According to ques, Profit = $5 \times$ loss

$$\Rightarrow (60 - x) = 5 \times (x - 48)$$

$$\Rightarrow 60 - x = 5x - 240$$

$$\Rightarrow 5x + x = 240 + 60 = 300$$

$$\Rightarrow x = \frac{300}{6} = \text{Rs. } 50 \text{ lakhs}$$

Question 29

If $(1 + \cos A)/2 = x$, then the value of x is

- A $\sin^2(A/2)$
- B $\sqrt{\sin(A/2)}$
- C $\sqrt{\cos(A/2)}$
- D $\cos^2(A/2)$

Answer: D

Explanation:

Using double angle formula, we know that $\cos(2\theta) = \cos^2\theta - \sin^2\theta$

$$\Rightarrow \cos(2\theta) = \cos^2\theta - (1 - \cos^2\theta)$$

$$\Rightarrow \cos(2\theta) = 2\cos^2\theta - 1$$

Replacing θ by $\frac{A}{2}$, we get :

$$\Rightarrow \cos A = 2\cos^2\left(\frac{A}{2}\right) - 1$$

$$\Rightarrow \cos A + 1 = 2\cos^2\left(\frac{A}{2}\right)$$

$$\Rightarrow \frac{(\cos A + 1)}{2} = \cos^2\left(\frac{A}{2}\right)$$

\Rightarrow Ans - (D)

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Question 30

If the number 583_437 is completely divisible by 9, then the smallest whole number in the place of the blank digit will be

A 4

B 5

C 3

D 6

Answer: D

Explanation:

Number : 583_437

Let the missing digit = x

$$\Rightarrow \text{Sum of digits} = 5 + 8 + 3 + x + 4 + 3 + 7 = 30 + x$$

Clearly, sum of digits is between 30 and 39. The only number divisible by 9 and which lies between 30 and 39 is 36

$$\Rightarrow 30 + x = 36$$

$$\Rightarrow x = 36 - 30 = 6$$

\Rightarrow Ans - (D)

Question 31

Two numbers are 35% and 50% lesser than a third number. By how much percent is the second number to be enhanced to make it equal to the first number?

A 23.08 percent

B 15 percent

C 25 percent

D 30 percent

Answer: D

Explanation:

Let the third number = $100x$

Let first number be a and second number be b

$$\Rightarrow a = 100x - \frac{35}{100} \times 100x = 65x$$

$$\text{and } b = 100x - \frac{50}{100} \times 100x = 50x$$

% by which the second number is to be enhanced to make it equal to the first number

$$= \frac{65x-50x}{50x} \times 100$$

$$= 15 \times 2 = 30\%$$

=> Ans - (D)

Question 32

A bank offers 15% compound interest per annum compounded half-yearly. A customer deposits Rs 2400 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is

A Rs 2268

B Rs 1134

C Rs 553.5

D Rs 283

Answer: C

Explanation:

Principal = Rs. 2400 and Rate = 15%

Amount on half yearly basis = $P(1 + \frac{R}{2 \times 100})^{2 \times T}$

$$= [2400(1 + \frac{15}{2 \times 100})^{2 \times 1}] + [2400(1 + \frac{15}{2 \times 100})^{2 \times \frac{1}{2}}]$$

$$= [2400 \times (\frac{43}{40})^2] + [2400 \times \frac{43}{40}]$$

$$= [2400 \times \frac{43}{40}] \times [\frac{43}{40} + 1]$$

$$= (60 \times 43) \times (\frac{83}{40})$$

$$= \frac{3}{2} \times 3569 = \text{Rs. } 5353.5$$

∴ Compound Interest = Rs.(5353.5 - 4800) = Rs. 553.5

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Question 33

If $\sec A + \tan A = x$, then the value of x is

A $\cos A / (1 + \sin A)$

B $\sqrt{[\cos A / (1 - \sin A)]}$

C $\sqrt{[\cos A / (1 + \sin A)]}$

D $\cos A / (1 - \sin A)$

Answer: D

Explanation:

Expression : $\sec A + \tan A = x$

$$= \frac{1}{\cos A} + \frac{\sin A}{\cos A} = \frac{1 + \sin A}{\cos A}$$

Multiplying both numerator and denominator by $(1 - \sin A)$

$$= \frac{1 + \sin A}{\cos A} \times \frac{1 - \sin A}{1 - \sin A}$$

$$= \frac{1 - \sin^2 A}{\cos A(1 - \sin A)} = \frac{\cos^2 A}{\cos A(1 - \sin A)}$$

$$\frac{\cos A}{1 - \sin A}$$

=> Ans - (D)

Question 34

Find two numbers such that their mean proportion is 16 and third proportion is 1024.

A 4 and 32

B 4 and 64

C 8 and 64

D 8 and 32

Answer: B

Explanation:

Three numbers a, b, c are in proportion iff $b^2 = ac$ where b is the mean proportion and c is the third proportion

Mean proportion of two numbers x and $y = 16$

$$\Rightarrow xy = (16)^2 = 256 \text{ -----(i)}$$

Third proportion = 1024

$$\Rightarrow y^2 = x \times 1024 \text{ -----(ii)}$$

Substituting value of x from equation(i) in equation(ii), we get :

$$\Rightarrow y^2 = \frac{256}{y} \times 1024$$

$$\Rightarrow y^3 = (2)^8 \times (2)^{10} = (2)^{18}$$

$$\Rightarrow y = (2)^{18 \div 3} = (2)^6 = 64$$

Substituting it in equation(i), $\Rightarrow x = \frac{256}{64} = 4$

Question 35

A cone of radius 3.5 cm and height 12 cm is completely filled with water. This water is emptied into an empty cylindrical vessel of radius 7 cm. What will be the height of water in this vessel?

A 2 cm

B 0.33 cm

C 0.5 cm

D 1 cm

Answer: D

Explanation:

Let height of cylinder = h cm and radius, $r = 7$ cm

Height of cone, $H = 12$ cm and Radius, $R = 3.5$ cm

Volume of cylinder = Volume of cone

$$\Rightarrow \pi r^2 h = \frac{1}{3} \pi R^2 H$$

$$\Rightarrow (7)^2 \times h = \frac{1}{3} \times (3.5)^2 \times 12$$

$$\Rightarrow 49h = 12.25 \times 4 = 49$$

$$\Rightarrow h = \frac{49}{49} = 1 \text{ cm}$$

=> Ans - (D)

Question 36

If the length of the side of an equilateral triangle is 8 cm, what is its area?

- A $32\sqrt{3}$ sq cm
- B 16 sq cm
- C $16\sqrt{3}$ sq cm
- D 32 sq cm

Answer: C

Explanation:

Side of equilateral triangle, $s = 8$ cm

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

$$= \frac{\sqrt{3}}{4} \times (8)^2 = \sqrt{3} \times \frac{64}{4}$$

$$= 16\sqrt{3} \text{ sq. cm}$$

=> Ans - (C)

Question 37

A line passing through the origin perpendicularly cuts the line $3x - 2y = 6$ at point M. Find M?

- A $(18/13, 12/13)$
- B $(18/13, -12/13)$
- C $(-18/13, -12/13)$
- D $(-18/13, 12/13)$

Answer: B

Explanation:

$$\text{Slope of line } 3x - 2y = 6 = -\frac{3}{-2} = \frac{3}{2}$$

Product of slopes of two perpendicular lines = -1

Let slope of line passing through origin = m

$$\Rightarrow m \times \frac{3}{2} = -1$$

$$\Rightarrow m = \frac{-2}{3}$$

Equation of line passing through origin and having slope m is $y = mx$ (Since y intercept is zero)

$$\Rightarrow y = \frac{-2}{3} x$$

$$\Rightarrow 3y = -2x \Rightarrow 2x + 3y = 0$$

Solving the above equations, we get the intersection point $M = \left(\frac{18}{13}, \frac{-12}{13}\right)$

=> Ans - (B)

Question 38

The average weight of Shubha, Govinda and Reshma is 65 kg. If the average weight of Shubha and Govinda be 63 kg and that of Govinda and Reshma be 70 kg, then the weight of Govinda is

- A 41
- B 71
- C 88
- D 46

Answer: B

Explanation:

Let respective weights of Shubha, Govinda and Reshma is s, g, r kg

$$\text{Average weight of the three} = \frac{s+g+r}{3} = 65$$

$$\Rightarrow s + g + r = 65 \times 3 = 195 \text{ kg} \text{-----(i)}$$

$$\text{Similarly, Total weight of Shubha and Govinda} = s + g = 63 \times 2 = 126 \text{ kg} \text{-----(ii)}$$

$$\text{Total weight of Govinda and Reshma} = g + r = 70 \times 2 = 140 \text{ kg} \text{-----(iii)}$$

$$\text{Adding equations(ii) and (iii), } \Rightarrow s + 2g + r = 126 + 140 = 266 \text{-----(iv)}$$

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

$$\Rightarrow g = 266 - 195 = 71 \text{ kg}$$

\Rightarrow Ans - (B)

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Question 39

Find length of the arc whose central angle is 45° and radius of the circle is 28 cm?

- A 11 cm
- B 33 cm
- C 44 cm
- D 22 cm

Answer: D

Explanation:

Central angle = $\theta = 45^\circ$ and radius = $r = 28$ cm

$$\text{Length of arc} = \frac{\theta}{360} \times 2\pi r$$

$$= \frac{45}{360} \times 2 \times \frac{22}{7} \times 28$$

$$= \frac{1}{8} \times 44 \times 4 = \frac{44}{2} = 22 \text{ cm}$$

\Rightarrow Ans - (D)

Question 40

The area of a square is 100 sq cm, find length of its diagonal?

- A $10\sqrt{2}$ cm
- B 10 cm
- C 20 cm

D $20\sqrt{2}$ cm

Answer: A

Explanation:

Let the side of square = s cm and diagonal = d cm

$$\Rightarrow \text{Area of square} = (s)^2 = 100$$

$$\Rightarrow s = \sqrt{100} = 10 \text{ cm}$$

$$\text{In right triangle of the square, } \Rightarrow (s)^2 + (s)^2 = (d)^2$$

$$\Rightarrow (d)^2 = (10)^2 + (10)^2$$

$$\Rightarrow (d)^2 = 100 + 100 = 200$$

$$\Rightarrow d = \sqrt{200} = 10\sqrt{2} \text{ cm}$$

\Rightarrow Ans - (A)

Question 41

Ticket for an adult is Rs 1500 and a child is Rs 800. 1 child goes free with two adults. If a group has 25 adults and 12 children what is the discount the group gets?

A 26.47 percent

B 20.38 percent

C 31.60 percent

D 33.33 percent

Answer: B

Explanation:

Cost price of adult ticket = Rs. 1500 and child ticket = Rs. 800

$$\text{For 25 adults and 12 children, total cost} = (25 \times 1500) + (12 \times 800)$$

$$= 37500 + 9600 = \text{Rs.}47,100$$

If one child goes free with two adults, \Rightarrow 12 children will go with 24 adults, thus all the children will go for free.

$$\text{Cost of 25 adults} = 25 \times 1500 = \text{Rs.}37,500$$

$$\text{Discount \%} = \frac{47100 - 37500}{47100} \times 100$$

$$= \frac{9600}{471} = 20.38\%$$

\Rightarrow Ans - (B)

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Question 42

If $(9 - 3x) - (17x - 10) = -1$, then the value of x is

A 1

B -1

C $9/10$

D $-9/10$

Answer: A

Explanation:

$$\text{Expression : } (9 - 3x) - (17x - 10) = -1$$

$$\Rightarrow (9 - 3x) + (-17x + 10) = -1$$

$$\Rightarrow -20x + 19 = -1$$

$$\Rightarrow -20x = -1 - 19 = -20$$

$$\Rightarrow x = \frac{-20}{-20} = 1$$

\Rightarrow Ans - (A)

Question 43

If $a - b = -7$ and $a^2 + b^2 = 85$, then find ab .

A 18

B -30

C -44

D -60

Answer: A

Explanation:

Given : $(a - b) = -7$ and $a^2 + b^2 = 85$

Using $(a - b)^2 = a^2 + b^2 - 2ab$

$$\Rightarrow (-7)^2 = 85 - (2 \times ab)$$

$$\Rightarrow 2ab = 85 - 49 = 36$$

$$\Rightarrow ab = \frac{36}{2} = 18$$

\Rightarrow Ans - (A)

Question 44

Prabodh has done $\frac{1}{2}$ of a job in 30 days, Sapan completes the rest of the job in 45 days. In how many days can they together do the job?

A 18 days

B 48 days

C 27 days

D 36 days

Answer: D

Explanation:

Let total work to be done = 60 units

Prabodh has done $\frac{1}{2}$ of a job i.e. $\frac{60}{2} = 30$ units in 30 days

$$\Rightarrow \text{Prabodh's efficiency} = \frac{30}{30} = 1 \text{ unit/day}$$

Work left = $60 - 30 = 30$ units which is done by Sapan in 45 days

$$\Rightarrow \text{Sapan's efficiency} = \frac{30}{45} = \frac{2}{3} \text{ units/day}$$

$$\text{Prabodh and Sapan 1 day's work} = 1 + \frac{2}{3} = \frac{5}{3} \text{ units/day}$$

$$\therefore \text{Time taken by them together to complete the work} = 60 \div \frac{5}{3}$$

$$= 60 \times \frac{3}{5} = 12 \times 3 = 36 \text{ days}$$

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Question 45

The sum of a non-zero number and thrice its reciprocal is $\frac{52}{7}$. Find the number.

- A 8
- B 9
- C 7
- D 6

Answer: C

Explanation:

Let the number be x

$$\text{According to ques, } \Rightarrow x + \frac{3}{x} = \frac{52}{7}$$

$$\Rightarrow \frac{x^2 + 3}{x} = \frac{52}{7}$$

$$\Rightarrow 7x^2 + 21 = 52x$$

$$\Rightarrow 7x^2 - 52x + 21 = 0$$

$$\Rightarrow 7x^2 - 49x - 3x + 21 = 0$$

$$\Rightarrow 7x(x - 7) - 3(x - 7) = 0$$

$$\Rightarrow (7x - 3)(x - 7) = 0$$

$$\Rightarrow x = 7, \frac{3}{7}$$

\Rightarrow Ans - (C)

Question 46

If $2x - 2(3 + 4x) < -1 - 2x < -5/3 - x/3$; then x can take which of the following values?

- A 1
- B 2
- C -2
- D -1

Answer: D

Explanation:

$$\text{Expression 1 : } -1 - 2x < \frac{-5}{3} - \frac{x}{3}$$

$$\Rightarrow 3 + 6x < 5 + x$$

$$\Rightarrow 6x - x < 5 - 3$$

$$\Rightarrow x < \frac{2}{5} \text{ -----(i)}$$

$$\text{Expression 2 : } 2x - 2(3 + 4x) < -1 - 2x$$

$$\Rightarrow -6x - 6 < -1 - 2x$$

$$\Rightarrow 6x - 2x > 1 - 6$$

$$\Rightarrow x > \frac{-5}{4} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $\frac{-5}{4} < x < \frac{2}{5}$

Thus, only value that x can take among the options = **-1**

\Rightarrow Ans - (D)

Question 47

Read the below data table and answer the following question

	Weight	Height in meter
Aabha	68	1.68
Aahana	77	1.57
Aakaanksha	55	1.8
Aakriti	51	1.76

Who has the least weight to height ratio ?

- A Aabha
- B Aahana
- C Aakaanksha
- D Aakriti

Answer: D

Explanation:

Ratio of weight to height

$$\text{Aabha : } \frac{68}{1.68} \approx 40.5$$

$$\text{Aahana : } \frac{77}{1.57} \approx 49$$

$$\text{Aakaanksha : } \frac{55}{1.8} \approx 30.5$$

$$\text{Aakriti : } \frac{51}{1.76} \approx 29 \quad \text{[LEAST]}$$

\Rightarrow Ans - (D)

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Question 48

Read the below data table and answer the following question

Year	Company's % Profit
2011	10
2012	25
2013	20
2014	15
2015	20

What was the revenue of the company if its expenditure was rupees 225 crore in the year when its % profit was the least ?

- A 270
- B 247.5
- C 292.5
- D 225

Answer: B

Explanation:

Profit % was least in 2011 = 10%

Let revenue = Rs. x crore and expenditure = Rs. 225 crore

$$\Rightarrow \text{Profit \%} = \frac{x-225}{225} \times 100 = 10$$

$$\Rightarrow \frac{x-225}{225} = \frac{10}{100} = \frac{1}{10}$$

$$\Rightarrow x - 225 = \frac{225}{10} = 22.5$$

$$\Rightarrow x = 225 + 22.5 = 247.5 \text{ crore}$$

\Rightarrow Ans - (B)

Question 49

The following tables shows the number of in each house of a society

No of children	No of houses
0	4
1	10
2	19
3	3

What is the average number of children per house ?

- A 1.58
- B 1.83
- C 2.08
- D 1.33

Answer: A

Explanation:

Total number of houses = $4 + 10 + 19 + 3 = 36$

Total children = $(0 \times 4) + (1 \times 10) + (2 \times 19) + (3 \times 3)$

$$= 10 + 38 + 9 = 57$$

$$\therefore \text{Average number of children per house} = \frac{57}{36} = 1.58$$

\Rightarrow Ans - (A)

Question 50

Read the below data table and answer the following question.

Partners	Present % share
Anand	15
Basu	5
Chinmay	15
Dhiraj	20
Ejaz	45

If the company has Issued six lakh shares between its five partners and if Basu offers to sell 15,000 of his shares to Ejaz, then Ejaz will have how many shares?

- A 270000 shares

- B 300000 shares
- C 255000 shares
- D 285000 shares

Answer: D

Explanation:

Total shares = 6,00,000

Original shares with Ejaz = $\frac{45}{100} \times 600000 = 2,70,000$

If Basu offers to sell 15,000 of his shares to Ejaz,

=> Shares with Ejaz = 2,70,000 + 15,000 = 2,85,000

=> Ans - (D)

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General Awareness

Instructions

For the following questions answer them individually

Question 51

Champaner-Pavagadh Archaeological Park is in .

- A Rajasthan
- B Assam
- C Bihar
- D Gujarat

Answer: D

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Question 52

Highest Civilian Honour received by Kamal Haasan is .

- A Padma Shri
- B Padma Bhushan
- C Padma Vibhushan
- D Bharat Ratna

Answer: B

Question 53

Which disease is caused due to deficiency of Iodine?

- A Rickets
- B Scurvy

- C Goitre
- D Growth retardation

Answer: C

Question 54

Grevillea Robusta is the scientific name of .

- A Peepal
- B Teak
- C Silver Oak
- D Jack fruit

Answer: C

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Question 55

The modern periodic table consists of 18 groups and 7 periods. What is the atomic number of the element placed in the 3rd group and the 4th period?

- A 23
- B 21
- C 19
- D 11

Answer: B

Question 56

Which of the following elements has the lowest melting point?

- A Oxygen
- B Gold
- C Silver
- D Manganese

Answer: A

Question 57

Who is known as father of computer?

- A Charles Babbage
- B Tim Berners Lee
- C Douglas Carl Engelbart
- D Sabeer Bhatia

Answer: A

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Question 58

Urdu is the official language of .

- A Andhra Pradesh
- B Arunachal Pradesh
- C West Bengal
- D Jammu & Kashmir

Answer: D

Question 59

Stagflation is a period of .

- A Persistent high inflation combined with high unemployment
- B Persistent high inflation combined with low unemployment
- C Persistent low inflation combined with high unemployment
- D Persistent low inflation combined with low unemployment

Answer: A

Question 60

Which of the following is a greenhouse gas or a gas which can deplete the ozone layer?

- A CH₂ClF
- B C₂H₂
- C PF₅
- D COCl₂

Answer: A

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Question 61

Periyar National Park is in which mountain range?

- A Aravalli Range
- B Vindhya Range
- C Eastern Ghats
- D Western Ghats

Answer: D

Question 62

First Indian to swim across the English Channel was .

- A Apsara
- B Durga Agarwal
- C Mihir Sen
- D Arati Saha

Answer: C

Question 63

Which of these islands are located in the Arabian Sea?

- A Andaman Islands
- B Nicobar Islands
- C Lakshadweep Islands
- D All of the above

Answer: C

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Question 64

Which state does not share its border with Jharkhand?

- A Madhya Pradesh
- B Chhattisgarh
- C Orissa
- D West Bengal

Answer: A

Question 65

Ashoka converted to which religion after the Kalinga war?

- A Jainism
- B Buddhism
- C Christianity
- D Judaism

Answer: B

Question 66

Gandhi Ji started the Non-Cooperation Movement in?

- A 1880

- B 1900
- C 1920
- D 1940

Answer: C

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Question 67

Who discovered X-Ray?

- A Wilhelm Rontgen
- B William Lee
- C X Rollswick
- D I Thompson

Answer: A

Question 68

Find the power of a convex lens if the image formed is at a distance of 25 cm from the lens when the object is placed on the other side of the lens at 12 cm from the optical centre?

- A -4.33 diopters
- B 12.33 diopters
- C -12.33 diopters
- D 4.33 diopters

Answer: B

Question 69

What is the unit of the physical quantity Entropy?

- A watt per kelvin
- B newton per kelvin
- C pascal per kelvin
- D joule per kelvin

Answer: D

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Question 70

Which Article specifies the Fundamental Duties of every citizen?

- A Article 80

- B Article 343
- C Article 51A
- D Article 356

Answer: C

Question 71

Article 173 of the Indian Constitution "Qualification for membership of the State Legislature" deals with?

- A the directive principles of state policy
- B the State Government
- C the Union Government
- D the fundamental rights of the Indian Citizen

Answer: B

Question 72

Michael Schumacher is associated with which sport?

- A Football
- B Golf
- C Formula One racing
- D Swimming

Answer: C

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Question 73

Who is the author of "The Guest"?

- A Mohit Goyal
- B Mitali Meelan
- C Ashwini Parashar
- D Anand Neelakantan

Answer: B

Question 74

If price of an article decreases from Rs P1 to Rs 190, when quantity demanded increases from 5000 units to 5200 units, and if point elasticity of demand is -0.8 find P1?

- A Rs 220
- B Rs 240

C Rs 200

D Rs 250

Answer: C

Question 75

When a Cuttlefish is described as a Molluscs, it is at which level of classification?

A Class

B Order

C Family

D Phylum

Answer: D

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English

Instructions

For the following questions answer them individually

Question 76

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.

Purush wandered through life, with no clear ideas of where he was heading and what he wanted to accomplish.

A madly

B excitedly

C crazily

D aimlessly

Answer: D

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Question 77

Improve the bracketed part of the sentence. Would it be impolite (to be asked) why they are leaving?

A to ask

B for asking

C for being asked

D no improvement

Answer: A

Question 78

Rearrange the parts of the sentence in correct order.

We should learn our lesson

P-from this history and stay away

Q-of our neighbours

R-from interfering in the messy domestic politics

A PRQ

B PQR

C QPR

D RPQ

Answer: A

Question 79

Select the antonym of to hew

A to prune

B to chop

C to agglutinate

D to cleave

Answer: C

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Question 80

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.

The chess player moved his piece to a more position, securing the win.

A profitable

B auspicious

C advantageous

D worthwhile

Answer: C

Question 81

Select the synonym of maestro

A neophyte

B catechumen

C sophomore

D conductor

Answer: D

Question 82

In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one, which best express the same sentence in Indirect/Direct speech.

The coach said, "Don't move, boys."

- A The coach told to the boys don't move.
- B The coach said to the boys not to be moving.
- C The coach asked the boys not to move.
- D The coach told to them, don't move boys.

Answer: C

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Question 83

Rearrange the parts of the sentence in correct order.

Public goods are

P-important as they

Q-mitigate the impact of

R-income poverty and inequality

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

Answer: B

Question 84

Improve the bracketed part of the sentence.

The workers are bent (on) getting a full months pay as bonus.

- A for
- B upon
- C to
- D no improvement

Answer: B

Question 85

Select the antonym of to flay

- A to scalp
- B to peel
- C to excoriate

D to sheath

Answer: D

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Question 86

In the following question, a sentence has been given in Active/Passive voice. Out of four alternatives suggested, select the one, which best expresses the same sentence in Passive/Active voice.

They will advise me about the price of the accessories.

- A I will have been advised about the price of the accessories.
- B I would have been advised about the price of the accessories.
- C I shall be advised about the price of the accessories.
- D I would have had been advised about the price of the accessories.

Answer: C

Question 87

Select the word with the correct spelling.

- A Paraguay
- B snugled
- C gimicky
- D benifice

Answer: A

Question 88

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'.

Mother does not hardly(A)/know what happened(B)/in school yesterday.(C)/No error(D)

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

Answer: A

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Question 89

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'.

No beggar who comes(A)/to our doors(B)/goes back empty handed.(C)/No error(D)

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

Answer: B

Question 90

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. To lift or haul something heavy with great effort.

- A heave
- B shrimp
- C wimp
- D runt

Answer: A

Question 91

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

- A a market for semi-precious stones and jewellery
- B a market where stolen goods are sold
- C a street market selling second-hand goods
- D a small but crowded and noisy place

Answer: C

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Question 92

Select the word with the correct spelling.

- A libreto
- B jazziest
- C serephim
- D kamikazey

Answer: B

Question 93

Select the synonym of troll

- A spruce

- B suave
- C gnome
- D dapper

Answer: C

Question 94

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. A conclusion or agreement done or reached decisively and with authority.

- A precise
- B definitive
- C reliable
- D specific

Answer: B

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Question 95

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

- A a very gory murder scene
- B a lot of hard work
- C loss of lives in battle
- D a person's physical body and their needs and frailties

Answer: D

Question 96

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 scene will now shift to obtaining instruments of ratification to bring the agreement into force 2020, the first year of its implementation. The agreement will enter into force with the ratification of 55 countries, whose aggregate greenhouse gas (GHG) emissions at least 55 per cent of global emissions.

The scene will now shift to obtaining instruments

- A enough
- B full
- C lavish
- D comfortable

Answer: A

Question 97

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 scene will now shift to obtaining instruments of ratification to bring the agreement into force 2020, the first year of its implementation. The agreement will enter into force with the ratification of 55 countries, whose aggregate greenhouse gas (GHG) emissions at least 55 per cent of global emissions.
bring the agreement into force 2020

- A on
- B before
- C at
- D previous

Answer: B

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Question 98

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 scene will now shift to obtaining instruments of ratification to bring the agreement into force 2020, the first year of its implementation. The agreement will enter into force with the ratification of 55 countries, whose aggregate greenhouse gas (GHG) emissions at least 55 per cent of global emissions.
the first year of its implementation.

- A proposal
- B proposition
- C supposed
- D proposed

Answer: D

Question 99

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 scene will now shift to obtaining instruments of ratification to bring the agreement into force 2020, the first year of its implementation. The agreement will enter into force with the ratification of 55 countries, whose aggregate greenhouse gas (GHG) emissions at least 55 per cent of global emissions.
The agreement will enter into force with the ratification of 55 countries

- A partially
- B at least
- C slightly
- D somewhat

Answer: B

Question 100

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 scene will now shift to obtaining instruments of ratification to bring the agreement into force 2020, the first year of its implementation. The agreement will enter into force with the ratification of 55 countries, whose aggregate greenhouse gas (GHG) emissions at least 55 per cent of global emissions.

whose aggregate greenhouse gas (GHG) emissions at least 55 per cent of global emissions.

A established

B constitute

C enact

D complement

Answer: B

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