



SSC CHSL 8 Feb 2017 Morning Shift

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Reasoning

Instructions

For the following questions answer them individually

Question 1

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

Mughals : History :: Rivers : ?

- A Geography
- B Physics
- C Psychology
- D Biology

Answer: A

Explanation:

First is the part of subject and second is the subject. Mughals are related to History similarly rivers are related to Geography.

=> Ans - (A)

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Question 2

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

ADH : ILP :: GJN : ?

- A OVR
- B ORV
- C PVR
- D PWR

Answer: B

Explanation:

Expression = ADH : ILP :: GJN : ?

The pattern followed is :

A	D	H
(+8)	(+8)	(+8)
I	L	P

Similarly, GJN : ORV

G	J	N
(+8)	(+8)	(+8)
O	R	V

=> Ans - (B)

Question 3

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

WD : TF :: TG : ?

- A QR

B QI

C IQ

D IP

Answer: B

Explanation:

$W(23) - 3 = T(20)$ and $D(4) + 2 = F(6)$

Using same logic, $T(20) - 3 = Q$ and $G(7) + 2 = I$

Hence, option B is the right answer.

Question 4

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

9 : 27 :: 64 : ?

A 225

B 216

C 512

D 324

Answer: C

Explanation:

Expression = 9 : 27 :: 64 : ?

The pattern followed is = $x^2 : x^3$

Eg :- $3^2 : 3^3 = 9 : 27$

Similarly, $64 = 8^2$

=> $8^3 = 512$

=> Ans - (C)

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Question 5

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

A Igloo

B Den

C Stables

D Rock

Answer: D

Explanation:

Except rocks others are used for living, hence rock is the odd one out.

=> Ans - (D)

Question 6

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

- A CUD
- B SIP
- C SET
- D NTR

Answer: D

Explanation:

In CUD, SIP and SET there is a vowel between two consonants.

This is not followed in NTR.

Hence, option D is the right answer.

Question 7

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

- A 132
- B 145
- C 187
- D 144

Answer: D

Explanation:

$144 = (12)^2$, all other numbers are not perfect square numbers, hence 144 is the odd one out.

=> Ans - (D)

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Question 8

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

- A 361
- B 289
- C 225
- D 216

Answer: D

Explanation:

$$361 = (19)^2$$

$$289 = (17)^2$$

$$225 = (15)^2$$

$$216 = (6)^3$$

Thus, 216 is the odd one out.

=> Ans - (D)

Question 9

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
Ace, King, Queen, ?

- A Jack
- B Club
- C Heart
- D Diamond

Answer: A

Explanation:

Cards in decreasing order are given.

= Ace -> King -> Queen -> Jack

=> Ans - (A)

Question 10

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
BB, DZ, GW, KS, ?

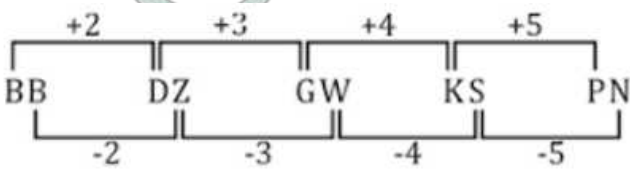
- A IK
- B IG
- C PN
- D PS

Answer: C

Explanation:

Expression : BB, DZ, GW, KS, ?

The pattern followed is :



Thus, missing term = **PN**

=> Ans - (C)

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Question 11

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
HI, MN, RS, ?

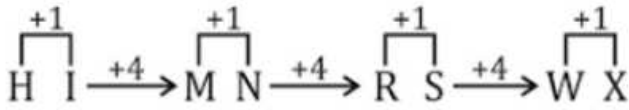
- A XY
- B WX
- C WY
- D WE

Answer: B

Explanation:

Expression : HI, MN, RS, ?

The pattern followed is :



Thus, missing term = WX

=> Ans - (B)

Question 12

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

80, 130, 190, 260, ?

A 350

B 340

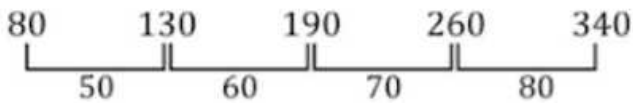
C 300

D 320

Answer: B

Explanation:

The pattern followed is :



Thus, missing number = 340

=> Ans - (B)

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) Kids rejoice with toys and toys give them new opportunities to think in various ways.

(II) Toys are non-living things that create a virtual world around kids to think and perceive in various ways.

Conclusions:

(I) If children don't play with toys some part of the personality is underdeveloped.

(II) Toys are mandatory and undetachable part of their personality.

A Only conclusion II follows

B Conclusion I and II both follow

C Neither I nor II follow

D Only conclusion I follows

Answer: C

Explanation:

The given statements indicate that kids rejoice with toys and that they give them new opportunities to think in various ways, they also create a virtual world around kids to think and perceive in various ways.

It does not mean that the children's personality will be under developed if they don't play with them, neither does it mean that toys are mandatory for the kids.

Thus, neither of the conclusion follows.

=> Ans - (C)

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Question 14

Five students P, Q, R, S and T are sitting on a bench. Q is to the left of P and right of T. S is at the extreme right end and R is to the immediate left of S. Who is sitting third from the left?

A P

B Q

C R

D T

Answer: A

Explanation:

S is at the extreme right end and R is to the left of S.

=> R sits second from right end.

Q is to the left of P and right of T.

=> T sits at extreme left end.

Thus, arrangement :

T	Q	P	R	S
---	---	---	---	---

∴ P is sitting third from the left.

=> Ans - (A)

Question 15

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

i. Temerity

ii. Temporary

iii. Tempered

iv. Temperature

A i, iv, iii, ii

B iii, ii, iv, i

C i, ii, iii, iv

D iv, iii, i, ii

Answer: A

Explanation:

As per the order of dictionary :

= Temerity -> Temperature -> Tempered -> Temporary

≡ i, iv, iii, ii

=> Ans - (A)

Question 16

In a certain code language, "DONKEY" is written as "YEKNOD". How is "RAINBOW" written in that code language?

- A WOBNAIR
- B WOBNIAR
- C WONBAIR
- D WOBNRAI

Answer: B

Explanation:

"DONKEY" is written as "YEKNOD"

The pattern followed is that the word is inverted, i.e. first letter comes at the end, second at second last and so on.

Similarly, for RAINBOW : **WOBNIAR**

=> Ans - (B)

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Question 17

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

3	7	21
5	6	30
8	1	?

- A 9
- B 8
- C 16
- D 12

Answer: B

Explanation:

The pattern followed is that the number in the last row is obtained by multiplying the other two.

Eg :- $3 \times 7 = 21$

$5 \times 6 = 30$

Similarly, $8 \times 1 = 8$

=> Ans - (B)

Question 18

If "S" denotes "multiplied by", "V" denotes "subtracted from", "M" denotes "added to" and "L" denotes "divided by", then $96 \text{ L } 12 \text{ S } 7 \text{ V } 49 \text{ M } 10 = ?$

- A 18
- B 20
- C 21
- D 17

Answer: D

Explanation:

Expression : $96 \div 12 \times 7 - 49 + 10 = ?$

$$\equiv 96 \div 12 \times 7 - 49 + 10$$

$$= (8 \times 7) - 39$$

$$= 56 - 39 = 17$$

=> Ans - (D)

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?
A_C_E_B_DE

A CADB

B DBAC

C BDAC

D BADC

Answer: C

Explanation:

The pattern followed is that in groups of 5, the term 'ABCDE' is repeated.

= ABCDE ABCDE

=> Ans - (C)

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Question 20

Amar moved 20km towards east in car from his home to reach hospital. From there he turned left and moved 30km and again moves 20km right to reach his school. How far is his school from his home?

A 45 km

B 50 km

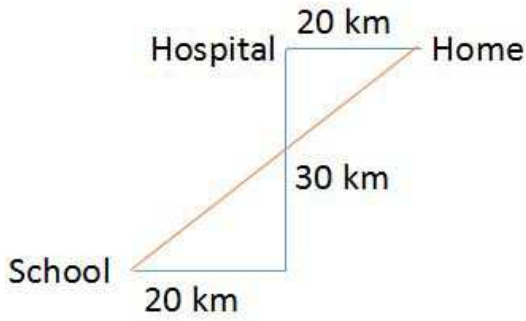
C 47 km

D 55 km

Answer: B

Explanation:

Let us represent the given statements diagrammatically.



Applying Pythagoras theorem, we get the distance between home and school to be $\sqrt{30^2 + 40^2}$
 $= \sqrt{2500}$
 $= 50km$

Therefore, option B is the right answer.

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, 'A' can be represented by 02, 13 etc. and 'L' can be represented by 85, 95, etc. Similarly, you have to identify the set for the word 'INSERT'.

Matrix - I

	0	1	2	3	4
0	R	S	A	Y	Y
1	R	I	S	A	Y
2	B	R	I	S	A
3	B	C	R	I	S
4	B	C	U	U	I

Matrix - II

	5	6	7	8	9
5	N	T	P	X	X
6	E	N	T	P	Z
7	L	E	N	T	V
8	L	F	E	N	V
9	L	F	G	E	G

- A 78, 43, 86, 01, 77, 89
- B 89, 42, 97, 01, 66, 23
- C 56, 31, 76, 23, 66, 23
- D 11, 66, 23, 87, 10, 78

Answer: D

Explanation:

- (A) : 78, 43, 86, 01, 77, 89 = TUFNSV
- (B) : 89, 42, 97, 01, 66, 23 = VUGSNS
- (C) : 56, 31, 76, 23, 66, 23 = TCESNE
- (D) : 11, 66, 23, 87, 10, 78 = INSERT

=> Ans - (D)

Question 22

Introducing a boy, Amar said, "He is the son of my maternal grandfather's son." How is that boy related to Amar?

- A Maternal uncle
- B Nephew
- C Brother
- D Cousin

Answer: D

Explanation:

Amar's maternal grandfather's son = Amar's uncle

Now, the boy is son of Amar's uncle,

=> Amar and the boy are cousins.

=> Ans - (D)

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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?



Answer: C

Explanation:

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

So the black petal on the right will be reversed and will appear at left side, and its opposite will be the half black and half white, thus the first and last options will be eliminated.

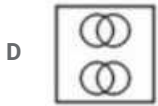
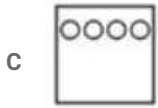
Also, in the question figure, the line in the middle has half arrows at the end, hence third option is the right image.

=> Ans - (C)

Question 24

Identify the diagram that best represents the relationship among the given classes. Asia, America, India, Delhi





Answer: B

Explanation:

Delhi is in India and India is in Asia, while America is a different continent.

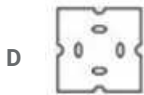
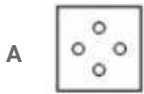
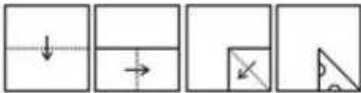
Thus, the venn diagram that best describes above relationship is :



=> Ans - (B)

Question 25

A piece of papers 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 top right, the left curve will get placed on the top and the bottom curve will get placed at the right in the bottom right quadrant.

Now after unfolding the paper, the pattern of cutting will be similar in all the four quadrants as shown below



Hence, the correct answer is Option C

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General Awareness

Instructions

For the following questions answer them individually

Question 26

_____ comprises the archaeological remains of a monastic and scholastic institution.

- A Nalanda
- B Rani ki vav
- C Hill Forts of Rajasthan
- D Fatehpur Sikri

Answer: A

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Question 27

Which of these Indians has not won a Nobel Award?

- A Rabindranath Tagore
- B C. V. Raman
- C Satyajit Ray
- D Amartya Sen

Answer: C

Question 28

Elapidae Naja is the scientific name of _____ .

- A Cobra
- B Elephant
- C Eagle
- D Owl

Answer: A

Question 29

What is the chemical formula of aluminium nitride?

- A AlN
- B Al₂N
- C Al₂N₃
- D AlN₂

Answer: A

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Question 30

Atomic number of which of the following elements is greater than that of Chlorine

- A Potassium
- B Sulphur
- C Aluminium
- D Phosphorus

Answer: A

Question 31

Commonly used abbreviation ISP in computer science stands for?

- A Internet Service Provider
- B Intranet Service Provider
- C Internet Systems Provider
- D Intranet Systems Provider

Answer: A

Question 32

Ghoomar is a folk dance of _____ .

- A Mizoram
- B Puducherry
- C Gujarat
- D Rajasthan

Answer: D

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Question 33

If one more baker is hired the output of a bakery will increase from 1250 breads to 1400 breads per day, but then the bakery will have to reduce the price of the bread from Rs 15 to Rs 14 per unit to sell the additional output, the marginal revenue product of the last baker is .

- A Rs 850
- B Rs 150
- C Rs 1960
- D Rs 1875

Answer: A

Explanation:

Revenue before the last baker is hired = $1250 \times 15 = 18750$

Revenue after the last baker is hired = $1400 \times 14 = 19600$

Marginal Revenue Product of the last baker = $19600 - 18750 = 850$

Question 34

If a perfectly competitive firm can increase its profits by increasing its output, then that firm's product's .

- A price exceeds its marginal costs
- B price exceeds its average total costs
- C average variable costs exceed its average total costs
- D fixed costs are zero

Answer: A

Question 35

Uraninite is an ore/mineral of _____

- A Zinc
- B Uranium
- C Titanium
- D Aluminium

Answer: B

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Question 36

Name India's oldest credit information bureau.

- A RBI
- B CIBIL
- C NABARD
- D UTI

Answer: B

Question 37

A volcano that is not expected to erupt again is called _____

- A Cinder cone
- B Moraine
- C Lava
- D Extinct volcano

Answer: D

Question 38

Paris is the Capital City of _____ .

- A France
- B Norway
- C Canada
- D Greece

Answer: A

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Question 39

Chandragupta Maurya was born in Pataliputra, which is now in which state ?

- A Chattisgarh
- B Madhya Pradesh
- C Uttar Pradesh
- D Bihar

Answer: D

Question 40

Battle of Kanauj in 1540 was fought between Sher Shah and_____

- A Babur
- B Humayun
- C Akbar
- D Aurangzeb

Answer: B

Question 41

Magic Marker was invented by_____

- A Adolphe Sax
- B Albert Bruce Sabin
- C Sidney Rosenthal
- D Hyman George Rickover

Answer: C

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Question 42

Upward force on a floating body is called _____

- A jerk
- B buoyancy
- C Archimedal force
- D Anti-gravity

Answer: B

Question 43

Women have shrill voice because of _____

- A Low frequency
- B High frequency
- C Shrill vocals
- D Strong epiglottis

Answer: B

Question 44

Who was the first female Governor of India?

- A Kamala Nehru
- B Madam Bikaji Kama
- C Sarojini Naidu
- D Vijaya Lakshmi Pandit

Answer: C

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Question 45

The number of parliamentary seats (Lok Sabha) of Kerala is .

- A 2
- B 13
- C 20
- D 25

Answer: C

Question 46

In which Sport in Olympics, India has won maximum Gold Medals?

- A Shooting
- B Wrestling
- C Hockey
- D Athletics

Answer: C

Question 47

The upper part of the heterosphere is composed almost completely of which gas?

- A Ozone
- B Nitrogen
- C Oxygen
- D Hydrogen

Answer: D

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Question 48

Who is the author of "My Father is a Hero"?

- A Novoneel Chakraborty
- B Neelima Dalmia Adhar
- C Nishant Kaushik
- D A.P.J. Abdul Kalam

Answer: C

Question 49

Which disease is caused due to deficiency of Iron?

- A Beriberi
- B Tetany
- C Kwashiorkor
- D Anaemia

Answer: D

Question 50

_____ is a leaf where the leaflets are arranged along the middle vein.

- A Pinnately compound leaf
- B Palmately compound leaf

C Compound leaf

D Simple leaf

Answer: B

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Mathematics

Instructions

For the following questions answer them individually

Question 51

When a number is increased by 24, it becomes 110% of itself. What is the number?

A 288

B 360

C 216

D 240

Answer: D

Explanation:

Let the number be $100x$

According to ques, $\Rightarrow 100x + 24 = \frac{110}{100} \times 100x$

$$\Rightarrow 100x + 24 = 110x$$

$$\Rightarrow 110x - 100x = 24$$

$$\Rightarrow x = \frac{24}{10} = 2.4$$

$$\therefore \text{Number} = 100 \times 2.4 = 240$$

\Rightarrow Ans - (D)

SSC CGL Free Mock Test (Latest Pattern)

Question 52

Reduce $3596 / 4292$ to lowest terms.

A $29/37$

B $17/43$

C $31/37$

D $19/23$

Answer: C

Explanation:

Expression : $\frac{3596}{4292}$

Dividing both numerator and denominator by 4, = $\frac{899}{1073}$

Similarly, dividing by 29, we get :

$$\frac{31}{37}$$

=> Ans - (C)

Question 53

A does 60% of a work in 15 days. He then calls B, and they together finish the remaining work in 5 days. How long B alone would take to do the whole work?

A 25 days

B 20 days

C 80 days

D 24 days

Answer: A

Explanation:

Let total work to be done = 100 units

Work done by A in 15 days = $\frac{60}{100} \times 100 = 60$ units

A's efficiency = $\frac{60}{15} = 4$ units/day

Remaining work = $100 - 60 = 40$ units

Let B's efficiency = x units/day

Now, A and B complete remaining work in 5 days

$$\Rightarrow (4 + x) \times 5 = 40$$

$$\Rightarrow 4 + x = \frac{40}{5} = 8$$

$$\Rightarrow x = 8 - 4 = 4$$

\therefore Time taken by B to complete the whole work alone = $\frac{100}{4} = 25$ days

=> Ans - (A)

Question 54

If $\cot 60^\circ + \operatorname{cosec} 60^\circ = x$, then the value of x is

A $\frac{(1-2\sqrt{2})}{\sqrt{2}}$

B $\frac{(\sqrt{3}-4)}{2\sqrt{3}}$

C 1

D $\sqrt{3}$

Answer: D

Explanation:

Expression : $\cot 60^\circ + \operatorname{cosec} 60^\circ = x$

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

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

$$= \sqrt{3}$$

=> Ans - (D)

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Question 55

Two cars travel from city A to city B at a speed of 42 and 60 km/hr respectively. If one car takes 2 hours lesser time than the other car for the journey, then the distance between City A and City B is:

- A 336 km
- B 280 km
- C 420 km
- D 224 km

Answer: B

Explanation:

Let the distance between City A and City B = d km

Speed of first car = 42 km/hr and speed of second car = 60 km/hr

Let time taken by first car = t hrs and time taken by second car = $(t - 2)$ hrs

Using, speed = distance/time for first car :

$$\Rightarrow \frac{d}{t} = 42$$

$$\Rightarrow d = 42t \text{ -----(i)}$$

$$\text{For second car, } \Rightarrow \frac{d}{t-2} = 60$$

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

$$\Rightarrow 42t = 60t - 120$$

$$\Rightarrow 60t - 42t = 18t = 120$$

$$\Rightarrow t = \frac{120}{18} = \frac{20}{3} \text{ hrs}$$

$$\text{From equation (i), } \Rightarrow d = 42 \times \frac{20}{3} = 280 \text{ km}$$

\Rightarrow Ans - (B)

Question 56

If $\sqrt{\frac{1-\cos A}{2}} = x$, then the value of x is

- A $\cos(A/2)$
- B $\tan(A/2)$
- C $\sin(A/2)$
- D $\cot(A/2)$

Answer: C

Explanation:

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

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

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

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

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

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

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

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

\Rightarrow Ans - (C)

Question 57

If $1 + \sec A = x$, then the value of x is

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

B $\sqrt{\frac{\sin A \tan A}{(1 - \cos A)}}$

C $\sin A \tan A / (1 - \cos A)$

D $\sqrt{\frac{\sin A \tan A}{(1 + \cos A)}}$

Answer: C

Explanation:

Expression : $1 + \sec A = x$

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

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

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

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

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

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

\Rightarrow Ans - (C)

SSC CHSL Study Material

Question 58

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

A 16 cm

B 32 cm

C 5.33 cm

D 8 cm

Answer: A

Explanation:

Let height of cylinder = h cm and radius, $r = 3.5$ cm

Height of cone, $H = 12$ cm and Radius, $R = 7$ cm

According to ques, Volume of cylinder = Volume of cone

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

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

$$\Rightarrow h = \frac{49 \times 4}{12.25}$$

$$\Rightarrow h = 4 \times 4 = 16 \text{ cm}$$

\Rightarrow Ans - (A)

Question 59

What is the length of the side of an equilateral triangle, if its area is $64\sqrt{3}$ sq cm?

A 8 cm

B 16 cm

C $16\sqrt{3}$ cm

D $8\sqrt{3}$ cm

Answer: B

Explanation:

Let the side of equilateral triangle = a cm

$$\text{Area of equilateral triangle} = \frac{\sqrt{3}}{4} a^2 = 64\sqrt{3}$$

$$\Rightarrow \frac{a^2}{4} = 64$$

$$\Rightarrow a^2 = 64 \times 4 = 256$$

$$\Rightarrow a = \sqrt{256} = 16 \text{ cm}$$

\Rightarrow Ans - (B)

Question 60

A vendor buys pens at the rate of 4 for Rs 5 and sells at the rate of 4 for Rs 3. What will be the result?

A 40 percent gain

B 66.6 percent loss

C 66.66 percent gain

D 40 percent loss

Answer: D

Explanation:

The vendor buys 4 pens for Rs. 5

$$\Rightarrow \text{Cost price of 1 pen} = \frac{5}{4} = \text{Rs } 1.25$$

He sells 4 pens for Rs. 3

$$\Rightarrow \text{Selling price of 1 pen} = \frac{3}{4} = \text{Rs } 0.75$$

\therefore Selling price is less than Cost price, the vendor suffers a loss

$$\Rightarrow \text{Loss \%} = \frac{(1.25 - 0.75)}{1.25} \times 100$$

$$= \frac{2}{5} \times 100 = 40\%$$

\Rightarrow Ans - (D)

Question 61

Simple interest on a certain sum of money for 3 years at 18% per annum is half the compound interest on Rs. 9000 for 2 years at 10% per annum. The sum placed on simple interest is:

- A Rs 3500
- B Rs 875
- C Rs 1750
- D Rs 1400

Answer: C

Explanation:

Sum for compound interest = Rs. 9000

Rate of interest = 10% and time period = 2 years

$$\text{Compound interest} = P \left[\left(1 + \frac{R}{100} \right)^T - 1 \right]$$

$$= 9000 \left[\left(1 + \frac{10}{100} \right)^2 - 1 \right]$$

$$= 9000 \left[\left(\frac{11}{10} \right)^2 - 1 \right] = 9000 \left(\frac{121 - 100}{100} \right)$$

$$= 90 \times 21 = \text{Rs. } 1890$$

$$\Rightarrow \text{Simple interest} = \frac{1890}{2} = \text{Rs. } 945$$

Let sum under simple interest = Rs. x

Rate of interest = 18% and time period = 3 years

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

$$= \frac{x \times 18 \times 3}{100} = 945$$

$$\Rightarrow x = \frac{945 \times 100}{54} = 100 \times 17.5 = \text{Rs. } 1750$$

\Rightarrow Ans - (C)

Question 62

Find k , if the line $4x + y = 1$ is perpendicular to the line $5x + ky = 2$?

- A 20
- B -20
- C 4
- D -4

Answer: B

Explanation:

Slope of line having equation: $ax + by + c = 0$ is $-\frac{a}{b}$

Thus, slope of line $4x + y = 1$ is $-\frac{4}{1} = -4$

Similarly, slope of line $5x + ky = 2$ is $-\frac{5}{k}$

Also, product of slopes of two perpendicular lines is -1

$$\Rightarrow \frac{-5}{k} \times -4 = -1$$

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

$$\Rightarrow k = -20$$

\Rightarrow Ans - (B)

Question 63

The mean of marks secured by 55 students in division A of class X is 58, 45 students of division B is 54 and that of 75 students of division C is 52. Find the mean of marks of the students of three divisions of Class X.

A 53.7

B 54.4

C 53

D 55.8

Answer: B

Explanation:

Total marks secured by 55 students in division A = $55 \times 58 = 3190$

Total marks secured by 45 students in division B = $45 \times 54 = 2430$

Total marks secured by 75 students in division C = $75 \times 52 = 3900$

\Rightarrow Mean of marks of the students of three divisions of Class X = $\frac{(3190+2430+3900)}{(55+45+75)}$

$$= \frac{9520}{175} = 54.4$$

\Rightarrow Ans - (B)

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Question 64

Find length of the arc whose central angle is 90° and radius of the circle is 3.5 cm?

A 11 cm

B 5.5 cm

C 16.5 cm

D 22 cm

Answer: B

Explanation:

Central angle = $\theta = 90^\circ$ and radius = $r = 3.5$ cm

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

$$= \frac{90}{360} \times 2 \times \frac{22}{7} \times 3.5$$

$$= \frac{1}{4} \times 22 = 5.5 \text{ cm}$$

\Rightarrow Ans - (B)

Question 65

The ratio of present ages of Ratnabali and Shaukat is 8:5. After 22 years the ratio of their ages will be 10:9. At present, what is Ratnabali's age?

- A 5
- B 14
- C 81
- D 8

Answer: D

Explanation:

Let Ratnabali's present age = $8x$ years and Shaukat's present age = $5x$ years

According to ques, $\Rightarrow \frac{8x+22}{5x+22} = \frac{10}{9}$

$$\Rightarrow 72x + 198 = 50x + 220$$

$$\Rightarrow 72x - 50x = 220 - 198$$

$$\Rightarrow 22x = 22$$

$$\Rightarrow x = \frac{22}{22} = 1$$

\therefore Ratnabali's age = $8 \times 1 = 8$ years

\Rightarrow Ans - (D)

Question 66

The area of an equilateral triangle is $9\sqrt{3}$ sq cm, find height of the triangle?

- A 6 cm
- B $6\sqrt{3}$ cm
- C $3\sqrt{3}$ cm
- D 9 cm

Answer: C

Explanation:

Let the side of equilateral triangle = a cm

Area of equilateral triangle = $\frac{\sqrt{3}}{4} a^2 = 9\sqrt{3}$

$$\Rightarrow a^2 = 9 \times 4 = 36$$

$$\Rightarrow a = \sqrt{36} = 6 \text{ cm}$$

The height h of an equilateral triangle bisect the opposite side.

$$\Rightarrow (h)^2 = (6)^2 - (3)^2$$

$$\Rightarrow (h)^2 = 36 - 9 = 27$$

$$\Rightarrow h = \sqrt{27} = 3\sqrt{3} \text{ cm}$$

\Rightarrow Ans - (C)

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Question 67

Ticket for an adult is Rs 2200 and a child is Rs 990. One child goes free with two adults. If a group has 23 adults and 11 children, what is the discount the group gets?

- A 17.71 percent
- B 32.30 percent
- C 26.47 percent
- D 25.77 percent

Answer: A

Explanation:

Cost price of adult ticket = Rs. 2200 and child ticket = Rs. 990

For 23 adults and 11 children, total cost = $(23 \times 2200) + (11 \times 990)$

= $50,600 + 10,890 = \text{Rs. } 61,490$

If one child goes free with two adults, \Rightarrow 11 children will go with 22 adults, thus all the children will go for free.

Cost of 23 adults = $23 \times 2200 = \text{Rs. } 50,600$

Discount % = $\frac{61490 - 50600}{61490} \times 100$

= 17.71%

\Rightarrow Ans - (A)

Question 68

If $(8 + 10x) : (13x - 2) = 2$, then the value of x is

- A $-3/4$
- B $-4/3$
- C $3/4$
- D $4/3$

Answer: C

Explanation:

$$\frac{8+10x}{13x-2} = 2$$

$$\Rightarrow 8 + 10x = 26x - 4$$

$$\Rightarrow 12 = 16x$$

$$\Rightarrow x = 3/4$$

so the answer is option C.

Question 69

If $xy = -18$ and $x^2 + y^2 = 85$, then find the value of $(x + y)$.

- A 8
- B 10
- C 9
- D 7

Answer: D

Explanation:

Given : $(x^2 + y^2) = 85$ and $xy = -18$

Using $(x + y)^2 = x^2 + y^2 + 2xy$

$$\Rightarrow (x + y)^2 = 85 + (2 \times -18)$$

$$\Rightarrow (x + y)^2 = 85 - 36 = 49$$

$$\Rightarrow (x + y) = \sqrt{49} = 7$$

\Rightarrow Ans - (D)

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Question 70

A number is greater than twice its reciprocal by $31/4$. Find the number.

A 7

B 8

C 9

D 6

Answer: B

Explanation:

Let the number be x

According to ques, $\Rightarrow x - \frac{2}{x} = \frac{31}{4}$

$$\Rightarrow \frac{x^2 - 2}{x} = \frac{31}{4}$$

$$\Rightarrow 4x^2 - 8 = 31x$$

$$\Rightarrow 4x^2 - 31x - 8 = 0$$

$$\Rightarrow 4x^2 + x - 32x - 8 = 0$$

$$\Rightarrow x(4x + 1) - 8(4x + 1) = 0$$

$$\Rightarrow (4x + 1)(x - 8) = 0$$

$$\Rightarrow x = 8, \frac{-1}{4}$$

\Rightarrow Ans - (B)

Question 71

If $2x - 3(x + 2) < 5 - 2x < -x + 2$, then find the value of x .

A 2

B 0

C 10

D 12

Answer: C

Explanation:

Expression 1 : $5 - 2x < -x + 2$

$$\Rightarrow 2x - x > 5 - 2$$

$$\Rightarrow x > 3 \text{ -----(i)}$$

Expression 2 : $2x - 3(x + 2) < 5 - 2x$

$$\Rightarrow -x - 6 < 5 - 2x$$

$$\Rightarrow 2x - x < 5 + 6$$

$$\Rightarrow x < 11 \text{ ----(ii)}$$

Combining inequalities (i) and (ii), we get : $3 < x < 11$

Thus, only value that x can take among the options = **10**

\Rightarrow Ans - (C)

Question 72

Refer the below data table and answer the following question.

	Weight (kg)	Height in Meter
Ahilya	60	1.8
Aishwarya	70	1.7
Akanksha	63	1.68
Alisha	67	1.76

Who has the least weight to height ratio?

- A Ahilya
- B Aishwarya
- C Akanksha
- D Alisha

Answer: A

Explanation:

Ratio of weight to height

$$\text{Ahilya : } \frac{60}{1.8} = 33.3 \text{ [LEAST]}$$

$$\text{Aishwarya : } \frac{70}{1.7} = 41.1$$

$$\text{Akanksha : } \frac{63}{1.68} = 37.5$$

$$\text{Alisha : } \frac{67}{1.76} = 38.06$$

\Rightarrow Ans - (A)

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Question 73

Refer the below data table and answer the following question.

Year	Company's % Profit
2011	25
2012	25
2013	5
2014	25
2015	10

What was the revenue of the company if its expenditure was Rs. 350 crore in the year when its % profit was the least ?

- A 367.5

- B 385
- C 402.5
- D 350

Answer: A

Explanation:

Profit % was least in 2013 = 5%

Let revenue = Rs. x crore and expenditure = Rs. 350 crore

$$\Rightarrow \text{Profit \%} = \frac{x-350}{350} \times 100 = 5$$

$$\Rightarrow \frac{x-350}{350} = \frac{5}{100} = \frac{1}{20}$$

$$\Rightarrow x - 350 = \frac{350}{20} = 17.5$$

$$\Rightarrow x = 350 + 17.5 = 367.5 \text{ crore}$$

\Rightarrow Ans - (A)

Question 74

The following table shows the number of children in each house of a society.

No of Children	No of Houses
0	3
1	10
2	12
3	3

What is the average number of children per house ?

- A 1.79
- B 1.54
- C 2.04
- D 1.29

Answer: B

Explanation:

Total number of houses = $3 + 10 + 12 + 3 = 28$

Total children = $(0 \times 3) + (1 \times 10) + (2 \times 12) + (3 \times 3)$

$= 10 + 24 + 9 = 43$

\therefore Average number of children per house = $\frac{43}{28} \approx 1.54$

\Rightarrow Ans - (B)

Question 75

Refer the below data table and answer the following question.

Partners	Present % Share
Anand	15
Bassu	10
Chinmay	15
Dhiraj	10
Ejaz	50

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

- A 60000 shares
- B 75000 shares
- C 90000 shares
- D 45000 shares

Answer: B

Explanation:

Total shares = 6,00,000

Original shares with Dhiraj = $\frac{10}{100} \times 600000 = 60,000$

If Chinmay offers to sell 15000 of his shares to Dhiraj,

=> Shares with Dhiraj = 60,000 + 15,000 = 75,000

=> Ans - (B)

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English

Instructions

For the following questions answer them individually

Question 76

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

- A to accept something that happened in the past and move on
- B to complete a project or task
- C to control one's anger
- D to achieve something seemingly easy, but with a lot of difficulty

Answer: A

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Question 77

Improve the bracketed part of the sentence. I wish I (knew what was) wrong with my daughter.

- A had known what is
- B knew what is
- C had knew what was
- D no improvement

Answer: D

Question 78

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. Extreme anxiety, sorrow, or pain.

- A pique
- B vexation
- C chagrin
- D distress

Answer: D

Question 79

Rearrange the parts of the sentence in correct order.

Accepting that one form

P-of price discrimination is okay opens

Q-the door to all other forms

R-of discrimination as well

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

Answer: D

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Question 80

Select the synonym of dare

- A cohort
- B taunt
- C patronize
- D chum

Answer: B

Question 81

Rearrange the parts of the sentence in correct order.

Seven decades ago,

P-Orwell wrote a clutch

Q-for the post-World War II British journal Polemic

R-of essays

A RPQ

B QRP

C PRQ

D QPR

Answer: C

Question 82

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. a region of injured tissue or skin in which blood capillaries have been ruptured; a bruise.

A pustule

B knurl

C contusion

D tumour

Answer: C

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Question 83

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. to get up on the wrong side of the bed

A to find oneself in a strange place when one wakes up especially after drinking a lot previous night

B to start the day in a bad mood which continues all day long

C to argue with your spouse

D to roll a lot in bed while sleeping

Answer: B

Question 84

Select the antonym of snag

A hurdle

B boon

C bug

D glitch

Answer: B

Question 85

Select the synonym of to delude

- A hoodwink
- B conscientious
- C scrupulous
- D bona fide

Answer: A

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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.

The candidates are writing an essay.

- A An essay was wrote by the candidates.
- B An essay is being written by the candidates.
- C An essay has had been written by the candidates.
- D An essay had been written by the candidates.

Answer: B

Question 87

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.

Bunty said, "I have done my class work".

- A Bunty said, he had done his class work.
- B Bunty said that he had done his class work.
- C Bunty was saying, he has done his class work.
- D Bunty said that he did his class work.

Answer: B

Question 88

Improve the bracketed part of the sentence. If I (just had) the money I would have bought the car.

- A have had
- B was having
- C had
- D no improvement

Answer: C

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Question 89

Select the antonym of diligence

- A lethargy
- B exertion
- C vigour
- D assiduity

Answer: A

Question 90

In the following question, sentence given with blank is 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 relocation of the car factory to our struggling town is an economic ----- .

- A boon
- B good
- C donation
- D present

Answer: A

Question 91

Select the word with the correct spelling.

- A thrashere
- B fiefedoms
- C snifing
- D squashed

Answer: D

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Question 92

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'.

Her heart was(A)/pounding as he(B)/stopped front of her.(C)/No error(D)

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

Answer: C

Question 93

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'.

He only plays a subsidiary(A)/ role in the management(B)/of this organization.(C)/No error(D)

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

Answer: D

Question 94

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

My grandmother's exercise regime is to walk the mall at a _____ pace.

- A potent
- B brisk
- C strong
- D vital

Answer: B

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Question 95

Select the word with the correct spelling.

- A insolente
- B saphire
- C immersed
- D peperony

Answer: C

Question 96

In the following passage, some of the words have been left out. Read the passage carefully and select the Answer for the given blank out of the four alternatives.

_____reader can add to the list and to the possibilities of a new ethical and moral politics _____ requires a Gandhian inventiveness of ritual and politics. What I wish to add is a _____. The rituals of apology and the question of justice, reconciliation and ethical repair are not easy. They require a rigour and an inventiveness _____ ethical thinking which _____new experiments with the idea of truth and healing in India.

_____ reader can add to the list

- A One

- B Some
- C Each
- D Anyone

Answer: C

Question 97

In the following passage, some of the words have been left out. Read the passage carefully and select the Answer for the given blank out of the four alternatives.

_____ reader can add to the list and to the possibilities of a new ethical and moral politics _____ requires a Gandhian inventiveness of ritual and politics. What I wish to add is a _____. The rituals of apology and the question of justice, reconciliation and ethical repair are not easy. They require a rigour and an inventiveness _____ ethical thinking which _____ new experiments with the idea of truth and healing in India. moral politics _____ requires a Gandhian inventiveness of ritual and politics.

- A which
- B why
- C where
- D what

Answer: A

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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 Answer for the given blank out of the four alternatives.

_____ reader can add to the list and to the possibilities of a new ethical and moral politics _____ requires a Gandhian inventiveness of ritual and politics. What I wish to add is a _____. The rituals of apology and the question of justice, reconciliation and ethical repair are not easy. They require a rigour and an inventiveness _____ ethical thinking which _____ new experiments with the idea of truth and healing in India. What I wish to add is a _____

- A fear
- B panic
- C warn
- D caveat

Answer: C

Question 99

In the following passage, some of the words have been left out. Read the passage carefully and select the Answer for the given blank out of the four alternatives.

_____ reader can add to the list and to the possibilities of a new ethical and moral politics requires a Gandhian inventiveness of ritual and politics. What I wish to add is a _____. The rituals of apology and the question of justice, reconciliation and ethical repair are not easy. They require a rigour and an inventiveness _____ ethical thinking which _____ new experiments with the idea of truth and healing in India. They require a rigour and an inventiveness _____ ethical thinking

- A with
- B of
- C to
- D against

Answer: B

Question 100

In the following passage, some of the words have been left out. Read the passage carefully and select the Answer for the given blank out of the four alternatives.

_____ reader can add to the list and to the possibilities of a new ethical and moral politics_____ requires a Gandhian inventiveness of ritual and politics. What I wish to add is a_____. The rituals of apology and the question of justice, reconciliation and ethical repair are not easy. They require a rigour and an inventiveness_____ethical thinking which_____new experiments with the idea of truth and healing in India. which_____ new experiments with the idea of truth and healing in India.

- A necessitate
- B ask
- C take
- D oblige

Answer: A

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