



SSC CHSL 2 Feb 2017 Afternoon 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. Cup : Coffee :: Bowl : ?

- A Dish
- B Spoon
- C Soup
- D Food

Answer: C

Explanation:

Expression = Cup : Coffee :: Bowl : ?

A cup is used to drink coffee, similarly a bowl is used to drink *soup*.

=> Ans - (C)

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Question 2

Select the related word/letters/number from the given alternatives. ZYX : ABC :: VUT : ?

- A EFG
- B FGH
- C DEF
- D CDE

Answer: A

Explanation:

Expression = ZYX : ABC :: VUT : ?

Alphabets at the corresponding position from the reverse end are written.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
↓	↓	↓	↓		
Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A

Similarly, VUT : EFG

=> Ans - (A)

Question 3

Select the related word/letters/number from the given alternatives. ACE : HJL :: LNP : ?

- A SUW
- B MOQ
- C IJK
- D BDF

Answer: A

Explanation:

Expression = ACE : HJL :: LNP : ?

The pattern followed is :

A	C	E
(+7)	(+7)	(+7)
H	J	L

Similarly, LNP : SUW

L	N	P
(+7)	(+7)	(+7)
S	U	W

=> Ans - (A)

Question 4

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

96 : 32 :: 48 : ?

A 14

B 12

C 16

D 18

Answer: C

Explanation:

Expression = 96 : 32 :: 48 : ?

The pattern followed is = $n : \frac{n}{3}$

Eg :- $96 : \frac{96}{3} = 96 : 32$

Similarly, $48 : \frac{48}{3} = 16$

=> Ans - (C)

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Question 5

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

A Blend

B Mingle

C Jumble

D Clash

Answer: D

Explanation:

Blend, mingle and jumble are all related to 'mix', hence clash is the odd one out.

=> Ans - (D)

Question 6

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

- A ACE
- B ONE
- C EON
- D RED

Answer: D

Explanation:

Except for Red, other words contain 2 vowels, hence RED is the odd one out.

=> Ans - (D)

Question 7

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

- A 1716
- B 2730
- C 3360
- D 4096

Answer: D

Explanation:

$4096 = (16)^3$, other numbers are not perfect cubes, hence 4096 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 211
- B 287
- C 283
- D 277

Answer: B

Explanation:

Apart from 287, all other numbers are prime numbers, hence $287 = 7 \times 41$ is the odd one out.

=> Ans - (B)

Question 9

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. Narendra Modi, Manmohan Singh, Atal Bihari Vajpayee, ?

- A V.P. Singh
- B P.V. Narasimha Rao
- C Chandra Shekhar
- D Jawaharlal Nehru

Answer: B

Explanation:

The given list is of India's Prime Ministers in reverse order.

= Narendra Modi -> Manmohan Singh -> Atal Bihari Vajpayee -> P.V. Narasimha Rao

=> Ans - (B)

Question 10

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. FU, LO, RI, ?

- A PK
- B XC
- C UF
- D RI

Answer: B

Explanation:

Expression : FU, LO, RI, ?

The pattern followed in each letter of the terms is :

1st letter : F (+6 letters) = L (+6 letters) = R (+6 letters) = X

2nd letter : U (-6 letters) = O (-6 letters) = I (-6 letters) = C

Thus, missing term = **XC**

=> Ans - (B)

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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. DE, GI, KN, ?

- A PS
- B PR
- C PT
- D TP

Answer: C

Explanation:

Expression : DE, GI, KN, ?

The pattern followed in each letter of the terms is :

1st letter : D (+3 letters) = G (+4 letters) = K (+5 letters) = P

2nd letter : E (+4 letters) = I (+5 letters) = N (+6 letters) = T

Thus, missing term = **PT**

=> Ans - (C)

Question 12

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
2, 7, 16, ?, 46, 67

A 26

B 27

C 29

D 31

Answer: C

Explanation:

Numbers with difference of 4 are added.

$$2 + 5 = 7$$

$$7 + 9 = 16$$

$$16 + 13 = 29$$

$$29 + 17 = 46$$

$$46 + 21 = 67$$

=> Ans - (C)

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) Determination is the key to success. If a person determines to achieve a certain goal in his or her life, no one can stop him/her from achieving it. (II) Prioritizing various determined goals is another important aspect of decision making.

Conclusions :

(I) If I determine to achieve three goals in near future, my energy will get divided into three parts and I can never succeed. (II) Making a prior plan for achieving those three things I can get near to all my goals.

A Only conclusion II follows

B Conclusion I and II both follow

C Neither I nor II follow

D Only conclusion I follows

Answer: A

Explanation:

Conclusion I is contrast to the statement I. Hence Conclusion I does not follow the given statements.

Conclusion II supports the statement II. Hence Conclusion II follows the given statements.

Hence, the correct answer is Option A

Question 14

Five boys are sitting facing towards South. Raj is between Rohit and Vishal. Vishal is to the immediate right of Manoj and Manoj is to the immediate right of Shekhar. Who is sitting in the middle?

- A Vishal
- B Manoj
- C Raj
- D Shekhar

Answer: A

Explanation:

Raj is between Rohit and Vishal. Vishal is to the immediate right of Manoj.

=> Raj is to the immediate right of Vishal and Rohit is second to the right of Vishal.

Also, Manoj is to the immediate right of Shekhar.

=> Shekhar sits at extreme left end.

Thus, arrangement :

Shekhar	Manoj	Vishal	Raj	Rohit
---------	-------	--------	-----	-------

∴ **Vishal** is sitting in the middle.

=> Ans - (A)

Question 15

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

- i. Application
- ii. Approve
- iii. Appeal
- iv. Astonishing

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

Answer: C

Explanation:

As per the order of dictionary :

= Appeal -> Application -> Approve -> Astonishing

≡ iii, i, ii, iv

=> Ans - (C)

Question 16

If in a certain code language, "STUBBORN" is written as "TUVCANQM". How is "TRAINING" written in that code language?

- A USBJMHEM
- B USBJMHEF

C JBSUFMHH

D USBJMHE

Answer: B

Explanation:

"STUBBORN" is written as "TUVCANQM"

The pattern followed is :

S	T	U	B	B	O	R	N
(+1)	(+1)	(+1)	(+1)	(-1)	(-1)	(-1)	(-1)
T	U	V	C	A	N	Q	M

Similarly, for TRAINING :

T	R	A	I	N	I	N	G
(+1)	(+1)	(+1)	(+1)	(-1)	(-1)	(-1)	(-1)
U	S	B	J	M	H	M	F

=> Ans - (B)

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Question 17

If "+" means "minus", "x" means "divided by", "÷" means "plus" and "-" means "multiplied by", then $300 \times 10 - 5 + 36 \div 57 = ?$

A 150

B 171

C 230

D 234

Answer: B

Explanation:

Expression : $300 \times 10 - 5 + 36 \div 57 = ?$

$$\equiv 300 \div 10 \times 5 - 36 + 57$$

$$= (30 \times 5) + 21$$

$$= 150 + 21 = 171$$

=> Ans - (B)

Question 18

Which of the following interchanges in signs and numbers will make the given equation correct?

$$7 \times 9 + 5 = 68$$

A + and =, 5 and 6

B x and +, 5 and 7

C + and =, 7 and 9

D x and +, 7 and 9

Answer: B

Explanation:

Equation : $7 \times 9 + 5 = 68$

(A) : + and =, 5 and 6

$$\equiv 7 \times 9 = 6 + 58$$

=> L.H.S. = $63 \neq 64$ = R.H.S.

(B) : x and +, 5 and 7

$$\equiv 5 + 9 \times 7 = 68$$

=> L.H.S. = $5 + 63 = 68$ = R.H.S.

=> Ans - (B)

Question 19

If "+" means "minus", "x" means "divided by", "÷" means "plus" and "-" means "multiplied by", then $76 \times 4 + 4 - 12 \div 37 = ?$

A 9

B 7

C 8

D 3

Answer: C

Explanation:

Expression : $76 \times 4 + 4 - 12 \div 37 = ?$

$$\equiv 76 \div 4 - 4 \times 12 + 37$$

$$= (19) + (-48) + 37$$

$$= 56 - 48 = 8$$

=> Ans - (C)

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Question 20

A man walks 20 m towards north, then he turns right and walks 3 m, then turns left and walks 4 m and from there he walks 4 m towards east. How far and in which direction is he from his initial position?

A 25 m east

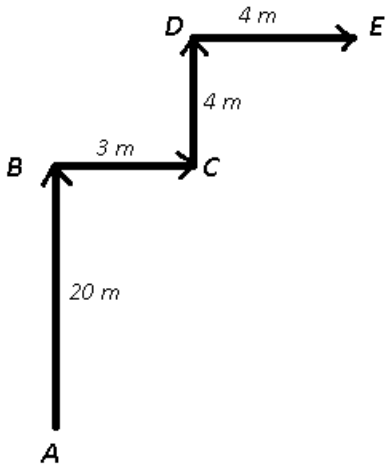
B 25 m north-east

C 20 m north

D 24 m north

Answer: B

Explanation:



Let the man starts from point A and walked 20 m north to reach point B, then he turned right towards east and walked for 3 m, from point C he turned left to reach D after walking 4 m and finally stopped at point E.

$$\text{Thus, } AE = \sqrt{(20 + 4)^2 + (4 + 3)^2}$$

$$\Rightarrow AE = \sqrt{576 + 49} = \sqrt{625}$$

$$\Rightarrow AE = 25 \text{ m}$$

Thus, he is 25 m north-east of his original position.

=> Ans - (B)

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, 'Cr can be represented by 22, 33 etc. and 'G' can be represented by 86, 89 etc. Similarly, you have to identify the set for the word 'CREED'.

Matrix - I

0	1	2	3	4	5
1	Q	D	S	P	Y
2	C	Q	D	S	P
3	P	C	Q	D	S
4	P	A	C	Q	D
5	P	R	A	C	A

Matrix - II

	5	6	7	8	9
5	D	E	I	R	I
6	E	D	R	H	H
7	J	R	D	E	N
8	R	G	G	N	G
9	F	F	N	F	D

- A 32, 76, 65, 56, 77
- B 54, 67, 78, 56, 79
- C 43, 32, 65, 56, 77
- D 32, 85, 56, 65, 78

Answer: A

Explanation:

(A) : 32, 76, 65, 56, 77 = CREED

(B) : 54, 67, 78, 56, 79 = GREEN

(C) : 43, 32, 65, 56, 77 = CCEED

(D) : 32, 85, 56, 65, 78 = CREEE

=> Ans - (A)

Question 22

While posing for a family photo, the father is standing to the right of the son and left of the grandmother. The mother is sitting to the left of her daughter and right of the grandmother. Who is seated in the middle?

A Grandmother

B Son

C Father

D Mother

Answer: A

Explanation:

Let the grandmother, father, mother, son and daughter are represented respectively by G, F, M, S, D and all are facing north.

The father is standing to the right of the son and left of the grandmother, => S F G.

The mother is sitting to the left of her daughter and right of the grandmother, => G M D.

Combining above equations, we get : **S F G M D**

Thus, grandmother is sitting in the middle.

=> 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?



Answer: C

Explanation:

If a mirror is placed on the line MN,

The star which is on the right will be on the left in the mirror image and the mirror image of star remains same as the original image.

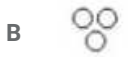
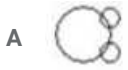
Z which is on the left will be on the right in the mirror image and the mirror image of Z changes as shown in the below figure.



Hence, the correct answer is Option D

Question 24

Identify the diagram that best represents the relationship among the given classes. Country, State, City

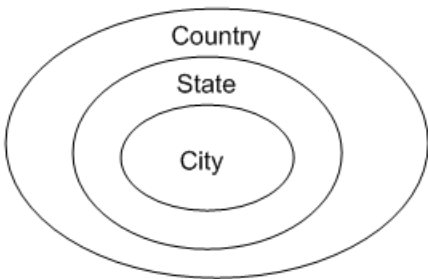


Answer: D

Explanation:

A city is completely part of state and a state of a country. Hence these three will be concentric.

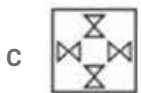
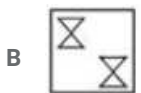
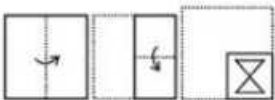
Thus, the venn diagram that best describes above relationship is :

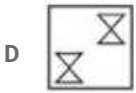


=> Ans - (D)

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.





D

Answer: A

Explanation:

When the paper is unfolded first to the top, similar pattern of cutting will appear on the top of the paper.

When the paper is unfolded again, similar pattern of cutting will appear at the top left and bottom left of the paper.

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



Hence, the correct answer is Option A

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General Awareness

Instructions

For the following questions answer them individually

Question 26

Rock Shelters of Bhimbetka is in .-----

- A Maharashtra
- B Himachal Pradesh
- C Karnataka
- D Madhya Pradesh

Answer: D

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Question 27

Highest Civilian Honour received by Anupam Kher is .-----

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

Answer: B

Question 28

is a drug that doctors give to people to make them calm or help them sleep.

- A Barbiturate
- B Antidepressant

- C Antihistamine
- D Beta-Blocker

Answer: A

Question 29

Artocarpus integra is the scientific name of .-----

- A Guava
- B Pineapple
- C Silver Oak
- D Jack fruit

Answer: D

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Question 30

Which organ stores fat soluble vitamins?

- A Blood
- B Skin
- C Liver
- D Pancreas

Answer: C

Question 31

Fe has 26 protons in its nucleus. What are the number of electrons in Fe²⁺ (II) ion?

- A 24
- B 26
- C 28
- D 13

Answer: A

Question 32

Which of the following elements has the lowest melting point?

- A Titanium
- B Sulphur
- C Argon
- D Zinc

Answer: C

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Question 33

ALU is a part of a computer is .-----

- A Application
- B ROM
- C RAM
- D Processor

Answer: D

Question 34

English is the official language of .-----

- A Chandigarh
- B Dadra and Nagar Haveli
- C Daman and Diu
- D Delhi

Answer: A

Question 35

If demand curve for roller skates is $D = 23000 - 19P$ and supply curve is $S = 18000 + 6P$, find the equilibrium Price?

- A Rs 100
- B Rs 400
- C Rs 50
- D Rs 200

Answer: D

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Question 36

Match the characteristics with their market structure (a) Expand out put until $MC = MR$
(b) Elasticity of demand depends on pricing policies of rivals

- A (a) Pure competition, (b) Pure Monopoly
- B (a) Pure Monopoly, (b) Monopolistic competition
- C (a) Pure competition, (b) Oligopoly
- D (a) Monopolistic competition, (b) Oligopoly

Answer: D

Question 37

Panna National Park is in which state?

- A Rajasthan
- B Maharashtra
- C Gujarat
- D Madhya Pradesh

Answer: D

Question 38

BSE SENSEX Constitutes ----- number of companies.

- A 30
- B 40
- C 50
- D 60

Answer: A

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Question 39

International Date line passes through middle of -----Ocean.

- A Arctic
- B Indian
- C Atlantic
- D Pacific

Answer: D

Question 40

What is the capital of Turkey?

- A Jerusalem
- B Canberra
- C Wellington
- D Ankara

Answer: D

Question 41

Before its Independence, Bangladesh was part of .-----

- A India
- B China
- C Pakistan
- D United Kingdom

Answer: C

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Question 42

Humayun was born in the year .-----

- A 1508
- B 1608
- C 1708
- D 1808

Answer: A

Question 43

Who Invented the 3-D printer?

- A Nick Holonyak
- B Elias Howe
- C Chuck Hull
- D Christiaan Huygens

Answer: C

Question 44

Alpha particles are .-----

- A twice the mass of beta particles
- B negatively charged
- C just like helium nuclei
- D lower in ionizing power as compared to gamma rays

Answer: C

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Question 45

Unit of impedance is .-----

- A ohm
- B henry
- C tesla
- D hertz

Answer: A

Question 46

Who has served maximum time as the Prime Minister of India?

- A Jawaharlal Nehru
- B Indira Gandhi
- C Manmohan Singh
- D Lal Bahadur Shastri

Answer: A

Question 47

What is the maximum number of Members in Lok Sabha?

- A 512
- B 542
- C 552
- D 532

Answer: C

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Question 48

In 2012 London Olympics, Saina Nehwal won the .-----

- A Gold Medal
- B Silver Medal
- C Bronze Medal
- D Didn't win any Medal

Answer: C

Question 49

Who is the author of "Go Clown #AccheDin for Comedy"?

- A Preeti Shenoy
- B Nikita Singh
- C Shatrugna Vadwlas
- D Ashwin Sanghi

Answer: C

Question 50

Periyar Tiger Reserve is in which state?

- A Telangana
- B Tamil Nadu
- C Kerala
- D Uttarakhand

Answer: C

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Mathematics

Instructions

For the following questions answer them individually

Question 51

A trader had 6 quintals of wheat. He sold a part of it at 7% profit and the rest at 17% profit, so that he made a total profit of 11%. How much wheat did he sell at 17% profit?

- A 360 kg
- B 240 kg
- C 120 kg
- D 480 kg

Answer: B

Explanation:

1 quintal = 100 kg => 6 quintals = 600 kg

Let the part he sold at 17% profit = x kg

=> Part he sold at 7% profit = $(600 - x)$ kg

Total profit made by the trader = 11%

$$\Rightarrow 17x + 7(600 - x) = 11 \times 600$$

$$\Rightarrow 17x + (7 \times 600) - 7x = 11 \times 600$$

$$\Rightarrow 10x = 600 \times (11 - 7)$$

$$\Rightarrow x = 60 \times 4 = 240 \text{ kg}$$

=> Ans - (B)

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Question 52

Badki can bake 45 cakes in 9 hours, Badki and Chutki together can bake 80 cakes in 10 hours. How many cakes Chutki can bake in 40 hours?

- A 125
- B 10
- C 120
- D 20

Answer: C

Explanation:

Cakes baked by Badki in 1 hour = $\frac{45}{9} = 5$

Cakes baked by Badki and Chutki together in 1 hour = $\frac{80}{10} = 8$

=> Cakes baked by Chutki in 1 hour = $8 - 5 = 3$

∴ Cakes baked by Chutki in 40 hours = $40 \times 3 = 120$

=> Ans - (C)

Question 53

Of the 5 numbers whose average is 72, the first is $\frac{1}{8}$ times the sum of other 4. The first number is

- A 60
- B 26
- C 40
- D 80

Answer: C

Explanation:

Let the first number be x and sum of other four numbers be y

=> Average of five numbers = $\frac{x+y}{5} = 72$

=> $x + y = 72 \times 5 = 360$ -----(i)

According to ques, => $x = \frac{1}{8} \times y$

=> $y = 8x$

Substituting value of y in equation (i), we get :

=> $x + 8x = 360$

=> $x = \frac{360}{9} = 40$

=> Ans - (C)

Question 54

If $\frac{6}{7}$ th of $\frac{8}{5}$ th of a number is 192, then $\frac{3}{4}$ th of that number is

- A 105

- B 77
- C 36
- D 80

Answer: A

Explanation:

Let the number be x

According to ques,

$$\Rightarrow \frac{6}{7} \times \frac{8}{5} \times x = 192$$

$$\Rightarrow \frac{48}{35} x = 192$$

$$\Rightarrow x = \frac{192}{48} \times 35$$

$$\Rightarrow x = 4 \times 35 = 140$$

$$\therefore \left(\frac{3}{4}\right)^{th} \text{ of the number} = \frac{3}{4} \times 140$$

$$= 3 \times 35 = 105$$

\Rightarrow Ans - (A)

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Question 55

The value of x for which the expressions $5x + 17$ and $17x - 5$ become equal is

- A 11/6
- B -11/6
- C 6/11
- D -6/11

Answer: A

Explanation:

Expressions : $5x + 17$ and $17x - 5$

According to ques, $\Rightarrow 5x + 17 = 17x - 5$

$$\Rightarrow 17x - 5x = 17 + 5$$

$$\Rightarrow 12x = 22$$

$$\Rightarrow x = \frac{22}{12} = \frac{11}{6}$$

\Rightarrow Ans - (A)

Question 56

On dividing $111a^2b^2c^2$ by $37a^2$, we get

- A $2c^2$
- B $2b^2$
- C 3
- D $3b^2c^2$

Answer: D

Explanation:

$$\text{Expression : } \frac{111a^2b^2c^2}{37a^2}$$

$$= \frac{111}{37} \times \frac{a^2b^2c^2}{a^2}$$

$$= 3b^2c^2$$

=> Ans - (D)

Question 57

If a merchant offers a discount of 30% on the list price, then he makes a loss of 16%. What % profit or % loss will he make if he sells at a discount of 20% of the list price?

A 14 percent profit

B 4 percent loss

C 26 percent profit

D 8 percent profit

Answer: B

Explanation:

Let list price = Rs. $100x$

After 30% discount, selling price = $\frac{100-30}{100} \times 100x = \text{Rs. } 70x$

Let Cost price = Rs. y

$$\Rightarrow \text{Loss \%} = \frac{y-70x}{y} \times 100 = 16$$

$$\Rightarrow \frac{y-70x}{y} = \frac{16}{100} = \frac{4}{25}$$

$$\Rightarrow 25y - 1750x = 4y$$

$$\Rightarrow 25y - 4y = 1750x$$

$$\Rightarrow y = \frac{1750x}{21} = 83.33x$$

If discount = 20%, => Selling price = $\frac{100-20}{100} \times 100x = \text{Rs. } 80x$

$$\therefore \text{Loss \%} = \frac{83.33x-80x}{83.33x} \times 100$$

$$= 3.99 \approx 4\%$$

=> Ans - (B)

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Question 58

If $5x - 4 \leq 2 - x$ and $4x + 5 > 2x - 5$, then x can take which of the following values?

A 3

B 6

C -7

D -1

Answer: D

Explanation:

Expression 1 : $5x - 4 \leq 2 - x$

$$\Rightarrow 5x + x \leq 2 + 4 \Rightarrow 6x \leq 6$$

$$\Rightarrow x \leq 1 \text{ -----(i)}$$

Expression 2 : $4x + 5 > 2x - 5$

$$\Rightarrow 4x - 2x > -5 - 5 \Rightarrow 2x > -10$$

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

Combining inequalities (i) and (ii), we get : $-5 < x \leq 1$

Thus, x can take values = -4, -3, -2, -1, 0, 1

\Rightarrow Ans - (D)

Question 59

A bank offers 15% compound interest per half year. A customer deposits Rs 8800 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 8315
- B Rs 2029.5
- C Rs 4158
- D Rs 1039.5

Answer: B

Explanation:

Principal = Rs. 8800 and Rate = 15%

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

$$= [8800 \left(1 + \frac{15}{2 \times 100} \right)^{2 \times 1}] + [8800 \left(1 + \frac{15}{2 \times 100} \right)^{2 \times 2}]$$

$$= [8800 \times \left(\frac{43}{40} \right)^2] + [8800 \times \frac{43}{40}]$$

$$= [8800 \times \frac{43}{40}] \times \left[\frac{43}{40} + 1 \right]$$

$$= (220 \times 43) \times \left(\frac{83}{40} \right)$$

$$= \frac{11}{2} \times 3569 = \text{Rs.}19629.5$$

\therefore Compound Interest = Rs.(19629.5 - 17600) = Rs. 2029.5

Question 60

If $4x - 5y = -37$ and $7x + y = -16$, then $x - y =$

- A -8
- B 8
- C 2
- D -2

Answer: A

Explanation:

Equation 1 : $4x - 5y = -37$

Equation 2 : $7x + y = -16$

Multiplying equation (2) by 5, we get : $35x + 5y = -80$

Adding above equation to equation (1)

$$\Rightarrow (4x + 35x) + (-5y + 5y) = -37 - 80$$

$$\Rightarrow 39x = -117$$

$$\Rightarrow x = \frac{-117}{39} = -3$$

Substituting value of x in equation (2)

$$\Rightarrow y = -16 - 7(-3) = 21 - 16 = 5$$

$$\therefore (x - y) = -3 - 5 = -8$$

\Rightarrow Ans - (A)

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Question 61

The co-ordinates of the centroid of a triangle ABC are (3,2). What are the co-ordinates of vertex C if co-ordinates of A and B are (-2,5) and (6,2) respectively?

A (-5,-1)

B (5,-1)

C (5,1)

D (-5,1)

Answer: B

Explanation:

Coordinates of centroid of triangle with vertices (x_1, y_1) , (x_2, y_2) and (x_3, y_3) is $\left(\frac{x_1+x_2+x_3}{3}, \frac{y_1+y_2+y_3}{3}\right)$

Let coordinates of vertex C = (x, y)

Vertex A(-2,5) and Vertex B(6,2) and Centroid = (3,2)

$$\Rightarrow 3 = \frac{-2+6+x}{3}$$

$$\Rightarrow x + 4 = 3 \times 3 = 9$$

$$\Rightarrow x = 9 - 4 = 5$$

$$\text{Similarly, } \Rightarrow 2 = \frac{5+2+y}{3}$$

$$\Rightarrow y + 7 = 2 \times 3 = 6$$

$$\Rightarrow y = 6 - 7 = -1$$

\therefore Coordinates of vertex C = (5,-1)

\Rightarrow Ans - (B)

Question 62

The slope of the line passing through the points (-5,1) and (x,-4) is -5/8. Find x.

A 4

B 3

C 2

D -1

Answer: B

Explanation:

Slope of line passing through (x_1, y_1) and (x_2, y_2) is $\frac{y_2 - y_1}{x_2 - x_1}$

=> Slope of the line passing through the points $(-5, 1)$ and $(x, -4)$

$$= \frac{-4 - 1}{x + 5} = \frac{-5}{8}$$

$$\Rightarrow \frac{-5}{x + 5} = \frac{-5}{8}$$

$$\Rightarrow x + 5 = 8$$

$$\Rightarrow x = 8 - 5 = 3$$

=> Ans - (B)

Question 63

A triangular prism has 9 edges. How many vertices does it have?

A 8

B 6

C 12

D 10

Answer: B

Explanation:

Triangular prism :



Euler's formula : $V + F - E = 2$ where V is number of vertices , F is number of faces and E is number of edges.

Triangular Prism has 9 edges and 5 faces.

$$\Rightarrow V = 2 + E - F = 2 + 9 - 5$$

$$\Rightarrow V = 11 - 5 = 6$$

=> Ans - (B)

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Question 64

The diagonal of a square equals the side of an equilateral triangle. If the area of the square is 12 sq cm, what is the area of the equilateral triangle?

A $12\sqrt{3}$ sq cm

B $6\sqrt{3}$ sq cm

C $12\sqrt{2}$ sq cm

D 24 sq cm

Answer: B

Explanation:

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

$$\Rightarrow \text{Area of square} = (s)^2 = 12 \text{ -----(i)}$$

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

Substituting value of s^2 from equation (i)

$$\Rightarrow (d)^2 = 12 + 12 = 24 \text{ -----(ii)}$$

Side of equilateral triangle = Diagonal of square = d cm

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

Substituting value of d^2 from (ii), we get :

$$= \frac{\sqrt{3}}{4} \times 24 = 6\sqrt{3} \text{ cm}^2$$

\Rightarrow Ans - (B)

Question 65

The ratio of present ages of Ranjini and Shahid is 5:4. After 13 years the ratio of their ages will be 6:5. What is Ranjini's present age?

A 52

B 65

C 60

D 32

Answer: B

Explanation:

Let Ranjini's present age = $5x$ years and Shahid's present age = $4x$ years

$$\text{According to ques, } \Rightarrow \frac{5x+13}{4x+13} = \frac{6}{5}$$

$$\Rightarrow 25x + 65 = 24x + 78$$

$$\Rightarrow 25x - 24x = 78 - 65$$

$$\Rightarrow x = 13$$

$$\therefore \text{Ranjini's age} = 5 \times 13 = 65 \text{ years}$$

\Rightarrow Ans - (B)

Question 66

If the curved surface area of a right circular cone is 10010 sq cm and its slant height is 91 cm, find its total surface area.

A 27720 sq cm

B 4620 sq cm

C 6930 sq cm

D 13860 sq cm

Answer: D

Explanation:

Let radius of cone = r cm and slant height = 91 cm

Curved surface area of cone = $\pi r l = 10010$

$$\Rightarrow \frac{22}{7} \times r \times 91 = 10010$$

$$\Rightarrow 22 \times 13 \times r = 10010$$

$$\Rightarrow r = \frac{10010}{22 \times 13} = 35$$

\therefore Total surface area of cone = $\pi r(l + r)$

$$= \left(\frac{22}{7} \times 35\right)(91 + 35)$$

$$= 22 \times 5 \times 126 = 13860 \text{ cm}^2$$

\Rightarrow Ans - (D)

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Question 67

If $\sin^{-1} \frac{4\pi}{3} = x$, then the value of x is

A -2

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

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

D $\sqrt{2}$

Answer: C

Explanation:

Expression : $\sin^{-1} \frac{4\pi}{3} = x$

$$= -\sin^{-1} \left(\frac{4\pi}{3}\right)$$

$$= -\sin^{-1} \left(\pi + \frac{\pi}{3}\right)$$

$$= -\left[-\sin^{-1} \left(\frac{\pi}{3}\right)\right] = \frac{\sqrt{3}}{2}$$

\Rightarrow Ans - (C)

Question 68

When a number is increased by 28, it becomes 107% of itself. What is the number?

A 336

B 420

C 400

D 252

Answer: C

Explanation:

Let the number be $100x$

$$\text{According to ques, } \Rightarrow 100x + 28 = \frac{107}{100} \times 100x$$

$$\Rightarrow 100x + 28 = 107x$$

$$\Rightarrow 107x - 100x = 28$$

$$\Rightarrow x = \frac{28}{7} = 4$$

$$\therefore \text{Number} = 100 \times 4 = 400$$

=> Ans - (C)

Question 69

If $\cos(A-B) - \cos(A+B) = x$, then the value of x is

- A $2\sin A \sin B$
- B $2\cos A \cos B$
- C $2\cos A \sin B$
- D $2\sin A \cos B$

Answer: A

Explanation:

Expression : $\cos(A-B) - \cos(A+B) = x$

$$= (\cos A \cos B + \sin A \sin B) - (\cos A \cos B - \sin A \sin B)$$

$$= \sin A \sin B + \sin A \sin B = 2\sin A \sin B$$

=> Ans - (A)

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Question 70

A car travels a certain distance at 24 km/h and comes back at 36 km/h. Find the average speed for total journey.

- A 28.8 km/hr
- B 30 km/hr
- C 27.6 km/hr
- D 31.2 km/hr

Answer: A

Explanation:

Average speed of the journey is the harmonic mean of the speeds 24 and 36 km/hr

Harmonic mean of two numbers 'x' and 'y' = $\frac{2xy}{x+y}$

$$\text{Average speed} = \frac{2 \times 24 \times 36}{24 + 36}$$

$$= 2 \div \frac{36+24}{36 \times 24} = \frac{2 \times 36 \times 24}{60}$$

$$= \frac{144}{5} = 28.8 \text{ km/hr}$$

=> Ans - (A)

Question 71

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

- A $1/(\sec^2 A - \tan^2 A)$
- B $1/(\sec^2 A + \tan^2 A)$

C $1/\sqrt{[(\sec)^2A - \tan^2A]}$

D $1/(\sec A + \tan A)$

Answer: D

Explanation:

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

Multiplying and dividing by $(\sec A + \tan A)$

$$= (\sec A - \tan A) \times \frac{\sec A + \tan A}{\sec A + \tan A}$$

$$= \frac{\sec^2 A - \tan^2 A}{\sec A + \tan A}$$

Using, $\sec^2 A - \tan^2 A = 1$

$$= \frac{1}{\sec A + \tan A}$$

=> Ans - (D)

Question 72

Refer the below data and table answer the following questions

	Boys	Girls
Medical	40	75
Engineering	100	25

What percent students who choose Engineering are girls ?

A 20

B 10.42

C 50

D 25

Answer: A

Explanation:

Number of girls who chose engineering = 25

Total number of engineers = $100 + 25 = 125$

$$\Rightarrow \text{Percent of the girls who choose engineering} = \frac{25}{125} \times 100$$

$$= \frac{100}{5} = 20\%$$

=> Ans - (A)

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Question 73

Refer the below data and table answer the following questions

	Cumulative production
January	200
February	850
March	1450
April	1950
May	2320
June	2600

How many car were manufactured in the month of April and May ?

- A 650
- B 1100
- C 4270
- D 870

Answer: D

Explanation:

Number of cars produced in :

January = 200

February = $850 - 200 = 650$

March = $1450 - 850 = 600$

April = $1950 - 1450 = 500$

May = $2320 - 1950 = 370$

June = $2600 - 2320 = 280$

=> Number of cars that were manufactured in the month of the April and may = $500 + 370 = 870$

=> Ans - (D)

Question 74

Refer the below data table and answer the following question

Day of the week	Distance joined (in km)
Monday	3.5
Tuesday	2
Wednesday	3
Thursday	0.5
Friday	3.5
Saturday	2.5
Sunday	3.5

If 400 calories are burned by jogging 5km how many calories were burnt in the given week ?

- A 1480 calories
- B 1530 calories
- C 1430 calories
- D 1380 calories

Answer: A

Explanation:

Total distance jogged in entire week

= $3.5 + 2 + 3 + 0.5 + 3.5 + 2.5 + 3.5 = 18.5$ km

Calories burned after jogging 5 km = 400 calories

=> Calories burned after jogging 18.5 km = $\frac{400}{5} \times 18.5$

= $80 \times 18.5 = 1480$ calories

=> Ans - (A)

Question 75

Refer the below data table and answer the following question

Items	Yearly Expense in Rs
Raw Materials	12
Labour	6
Rent	6
Interest	4
Taxes	4

Labour and Interest are what percent of total expenses ?

- A 31.25 percent
- B 24 percent
- C 16.75 percent
- D 38.5 percent

Answer: A

Explanation:

Yearly experience in Labour and Interest (in Rs) = 6 + 4 = 10

Total expenses (in Rs) = 12 + 6 + 6 + 4 + 4 = 32

$$\Rightarrow \text{Required \%} = \frac{10}{32} \times 100$$

$$= \frac{125}{4} = 31.25\%$$

\Rightarrow Ans - (A)

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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.

Brijesh said that he has no ----- of stepping down, although he is under a lot of pressure to do so.

- A intuition
- B intention
- C point
- D object

Answer: B

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Question 77

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.

Lakhs of tourists view the Taj Mahal every year.

- A The Taj Mahal is being viewed by lakhs of tourists every year.
- B Every year the Taj Mahal is being viewed by lakhs of tourists.
- C Every year the Taj Mahal was being viewed by lakhs of tourists.
- D The Taj Mahal is viewed by lakhs of tourists every year.

Answer: D

Question 78

Rearrange the parts of the sentence in correct order.

They have now

P-by a paternalistic state

Q-of goods mandated

R-been turned into consumers

- A QRP
- B QPR
- C PRQ
- D RQP

Answer: D

Question 79

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

Causing a burning sensation like that of hot liquid on the skin

- A piping
- B igneous
- C sizzling
- D scalding

Answer: D

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Question 80

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

dead ringer

- A a competition whose outcome is already decided (by unfair means)
- B a candidate fraudulently substituted for another in a competition
- C a person who was in a situation to warn others is now missing
- D a warning which comes too late, after the damage is done

Answer: B

Question 81

Select the antonym of
pervert

- A virtuous
- B libertine
- C deviant
- D debauchee

Answer: A

Question 82

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'.

The Directors are(A)/now inquiring(B)/in the cause of the fire.(C)/No error(D)

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

Answer: C

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Question 83

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.

As the judge enters the courtroom,-----calls upon all occupants in the room to stand.

- A formality
- B pattern
- C culture
- D habit

Answer: A

Question 84

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

- A a candidate about whom little is known but who unexpectedly wins
- B a good person who has been unfairly maligned
- C a person despised by everybody wins
- D a very unpredictable contestant, sometimes wins sometimes loses

Answer: A

Question 85

Select the synonym of parlance

- A definitive
- B lingo
- C canonical
- D classic

Answer: B

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Question 86

Select the word with the correct spelling.

- A bordeaux
- B ambienc
- C macakues
- D culinary

Answer: D

Question 87

Select the synonym of obstreperous

- A boisterous
- B bashful
- C reticent
- D taciturn

Answer: A

Question 88

Select the word with the correct spelling.

- A metaled
- B lonsome
- C piquancy
- D shufled

Answer: C

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Question 89

Improve the bracketed part of the sentence.

We were still waiting in the queue for tickets when the show (had begun).

- A was beginning
- B begins
- C began
- D no improvement

Answer: C

Question 90

Select the antonym of frazzle

- A prostration
- B vigour
- C enervation
- D lassitude

Answer: B

Question 91

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

An organization set up to provide help and raise money for those in need.

- A conglomerate
- B donation
- C charity
- D dole

Answer: C

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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'.

She was an(A)/only child who(B)/had been very welcome.(C)/No error(D)

- A A
- B B
- C C

D D

Answer: D

Question 93

Rearrange the parts of the sentence in correct order.

Elections globally

P-dominated by numbers, percentages

Q-and tallies

R-can be dry affairs

A RQP

B PQR

C RPQ

D QRP

Answer: C

Question 94

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.

"Alas! I have broken my grandfather's watch" said Amit.

A Amit was sorrowful that he broke his grandfather's watch.

B Amit exclaimed sorrowfully that he has broken his grandfather's watch.

C Amit was sorrowful that he had broken his grandfather's watch.

D Amit exclaimed sorrowfully that he had broken his grandfather's watch.

Answer: D

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Question 95

Improve the bracketed part of the sentence.

It was so hot during the concert that some spectators passed (out).

A away

B by

C over

D no improvement

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.

----- various signs of economic slowdown such as languishing industrial production and adverse -----of the drought on rural livelihoods and demand, the government is apparently unable----- unwilling to increase public spending to -----people's material distress or to kick-start economic----- to increase employment.

various signs of economic slowdown such as languishing industrial production

- A As
- B Despite
- C So
- D Because

Answer: B

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.

----- various signs of economic slowdown such as languishing industrial production and adverse -----of the drought on rural livelihoods and demand, the government is apparently unable----- unwilling to increase public spending to -----people's material distress or to kick-start economic----- to increase employment.

adverse of the drought on rural livelihoods and demand

- A effects
- B effect
- C affects
- D affect

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 correct answer for the given blank out of the four alternatives.

----- various signs of economic slowdown such as languishing industrial production and adverse -----of the drought on rural livelihoods and demand, the government is apparently unable----- unwilling to increase public spending to -----people's material distress or to kick-start economic----- to increase employment.

the government is apparently unable

- A hence
- B but
- C or
- D nor

Answer: C

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.

----- various signs of economic slowdown such as languishing industrial production and adverse -----of the drought on rural livelihoods and demand, the government is apparently unable----- unwilling to increase public spending to -----people's material distress or to kick-start economic----- to increase employment.
spending to people's material distress

- A cool off
- B cut
- C less
- D mitigate

Answer: D

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.

----- various signs of economic slowdown such as languishing industrial production and adverse -----of the drought on rural livelihoods and demand, the government is apparently unable----- unwilling to increase public spending to -----people's material distress or to kick-start economic----- to increase employment.
distress or to kick-start economic to increase employment.

- A activity
- B happening
- C performance
- D acts

Answer: A

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