



SSC CHSL 20 Jan 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.

Jammu and Kashmir : North :: Tamil Nadu : ?

- A South
- B East
- C West
- D North-east

Answer: A

Explanation:

Expression : Jammu and Kashmir : North :: Tamil Nadu : ?

Jammu and Kashmir is in the North of India, similarly Tamil Nadu is in the south.

=> Ans - (A)

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Question 2

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

ST : LC :: PQ : ?

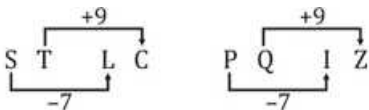
- A IY
- B IZ
- C JZ
- D JY

Answer: B

Explanation:

Expression = ST : LC :: PQ : ?

The pattern followed is :



Thus, PQ : IZ

=> Ans - (B)

Question 3

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

TC : NF :: QM : ?

- A JY
- B IY

C HY

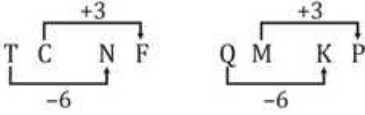
D KP

Answer: D

Explanation:

Expression = TC : NF :: QM : ?

The pattern followed is :



Thus, QM : KP

=> Ans - (D)

Question 4

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

9 : 82 :: 11 : ?

A 121

B 122

C 120

D 125

Answer: B

Explanation:

Expression = 9 : 82 :: 11 : ?

The pattern followed is = $x : x^2 + 1$

Eg :- $9 : 9^2 + 1 = 9 : 82$

Similarly, $(11)^2 + 1 = 121 + 1 = 122$

=> Ans - (B)

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Question 5

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

A Nokia

B Whirlpool

C Apple

D Micromax

Answer: B

Explanation:

Except Whirlpool other three are mobile manufacturing companies, hence it is the odd one out.

=> Ans - (B)

Question 6

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

- A OR
- B UI
- C TA
- D SE

Answer: B

Explanation:

Only in UI, both letters are vowels, hence it is the odd one out.

=> Ans - (B)

Question 7

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

- A 636
- B 253
- C 396
- D 473

Answer: A

Explanation:

Middle digit is sum of 1st and 3rd digit, but $6 + 6 \neq 12$, hence 636 is the odd one out.

=> Ans - (A)

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Question 8

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

- A 93
- B 89
- C 79
- D 81

Answer: D

Explanation:

Only $81 = 9^2$ is a perfect square, hence it is the odd one out.

=> Ans - (D)

Question 9

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
Sowing, Irrigation, Hoeing, ?

- A Harvesting
- B Crop selection
- C Land preparation
- D Seed selection

Answer: A

Explanation:

Steps in crop production are given.

= Sowing -> Irrigation -> Hoeing -> Harvesting

=> Ans - (A)

Question 10

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
DW, FY, HA, JC, ?

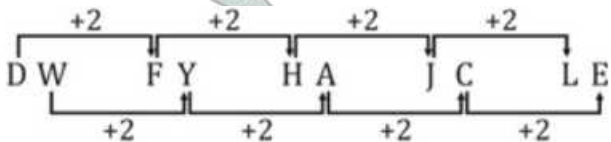
- A LD
- B LE
- C ME
- D MD

Answer: B

Explanation:

Expression : DW, FY, HA, JC, ?

The pattern followed is :



Thus, missing term = LE

=> Ans - (B)

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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.
YZ, GH, OP, WX, ?

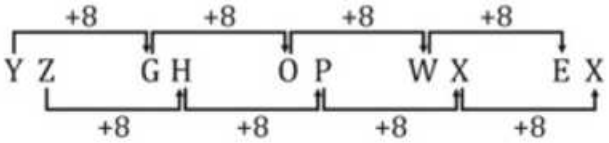
- A DN
- B GH
- C EF
- D DE

Answer: C

Explanation:

Expression : YZ, GH, OP, WX, ?

The pattern followed is :



Thus, missing term = EF

=> Ans - (C)

Question 12

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
64, 100, 169, 289, ?

A 484

B 444

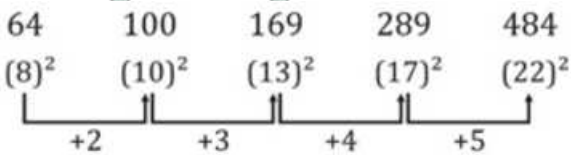
C 404

D 468

Answer: A

Explanation:

The pattern followed is :



Thus, missing number = 484

=> Ans - (A)

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.

Statements:

(I) The average age of working people in New Zealand is 58.

(II) Death rate in New Zealand is very low as the climatic conditions are sound.

Conclusion:

(I) In New Zealand youth is required in workforce as well as in education.

(II) There are more job opportunities available in New Zealand.

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:

The given statement indicate that the average age of working people in New Zealand is 58 and death rate in New Zealand is very low as the climatic conditions are sound. We cannot conclude whether there are much job opportunities available. But youth is required in workforce as well as in education in New Zealand.

Thus, only conclusion I follows.

=> Ans - (D)

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Question 14

The sum of the ages of Ram and Shyam is 49. The difference between the age of Shyam and twice the age of Ram is 8. What is the age (in years) of Ram?

- A 30
- B 20
- C 19
- D 29

Answer: C

Explanation:

Let Ram's age = x years

=> Shyam's age = $(49 - x)$ years

According to ques, => $2x - (49 - x) = 8$

=> $2x + x = 8 + 49$

=> $3x = 57$

=> $x = \frac{57}{3} = 19$

Thus, Ram's age is 19 years.

=> Ans - (C)

Question 15

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

- i. Dominant
- ii. Dormant
- iii. Docile
- iv. Document

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

Answer: A

Explanation:

As per the order of dictionary :

= Docile -> Document -> Dominant -> Dormant

≡ iii, iv, i, ii

=> Ans - (A)

Question 16

In a certain code language, "DESIRE" is written as "EGVMWK". How is "RECESS" written in that code language?

- A SGXFIY
- B SFGIXY
- C SGFIXY
- D SGFIXX

Answer: C

Explanation:

"DESIRE" is written as "EGVMWK"

The pattern followed is :

D	E	S	I	R	E
↓+1	↓+2	↓+3	↓+4	↓+5	↓+6
E	G	V	M	W	K

Similarly, for RECESS :

R	E	C	E	S	S
↓+1	↓+2	↓+3	↓+4	↓+5	↓+6
S	G	F	I	X	Y

=> Ans - (C)

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Question 17

Find the missing number in given series in the table

9	8	162
11	6	174
8	13	?

- A 220
- B 254
- C 222
- D 236

Answer: B

Explanation:

In each row, for the numbers a, b and c , pattern is : $c = a^2 + b^2 + a + b$

Eg :- $9^2 + 8^2 + (9 + 8) = 81 + 64 + 17 = 162$

$11^2 + 6^2 = (11 + 6) = 121 + 36 + 17 = 174$

Similarly, $8^2 + 13^2 + (8 + 13) = 64 + 169 + 21 = 254$

=> Ans - (B)

Question 18

If "A" denotes "addition", "B" denotes "divided by", "C" denotes "multiplication" and "D" denotes "subtraction", then $96 \text{ B } 12 \text{ C } 4 \text{ A } 8 \text{ D } 32 = ?$

- A 8

B 3

C 1

D 2

Answer: A

Explanation:

Expression : $96 \div 12 \times 4 + 8 - 32 = ?$

$$\equiv 96 \div 12 \times 4 + 8 - 32$$

$$= (8 \times 4) + 8 - 32$$

$$= 32 + 8 - 32 = 8$$

=> Ans - (A)

Question 19

Which set of letters when sequentially placed at the gaps in the given letter series shall complete it?

p_rpq_rp_r_r

A qrrr

B qrpq

C qrqr

D qppr

Answer: C

Explanation:

The pattern followed is that the term 'pqr' is repeated and r's in increasing order are appended at the end.

= pqr pqr r pqr r r

=> Ans - (C)

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Question 20

If east becomes south, then in which direction should a man move to go towards the north?

A North

B South

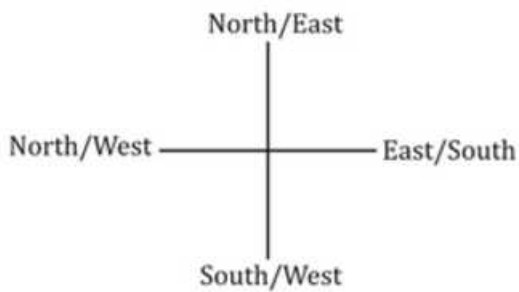
C East

D West

Answer: C

Explanation:

If east becomes south, then North -> East, West -> North and South -> West



Thus, to go towards north, a man should move towards east.

=> Ans - (C)

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, 'D' can be represented by 68, 10, etc.. and 'R' can be represented by 34, 22, etc. Similarly, you have to identify the set for the word 'PIZZA'.

MATRIX 1:

	0	1	2	3	4
0	I	P	I	M	R
1	D	I	W	R	W
2	S	H	R	B	E
3	F	R	E	P	R
4	R	E	P	C	F

MATRIX 2:

	5	6	7	8	9
5	A	E	X	A	Z
6	E	G	A	D	Y
7	K	A	X	G	M
8	A	B	C	A	W
9	Z	V	M	H	N

- A 98, 44, 76, 11, 75
- B 42, 00, 59, 95, 88
- C 68, 22, 67, 00, 98
- D 88, 24, 58, 66, 40

Answer: B

Explanation:

- (A) : 98, 44, 76, 11, 75 = HFAIK
- (B) : 42, 00, 59, 95, 88 = **PIZZA**
- (C) : 68, 22, 67, 00, 98 = DRAIH
- (D) : 88, 24, 58, 66, 40 = AEAGR

=> Ans - (B)

Question 22

Raju's wife is the sister of Rakesh's son. How is Raju related to Rakesh?

- A Son

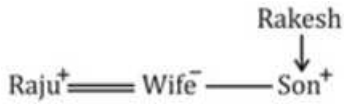
- B Grandson
- C Son-in-law
- D Brother

Answer: C

Explanation:

Raju's wife is the sister of Rakesh's son, => Rakesh is the father-in-law of Raju.

Relation is :



Thus, Raju is son-in-law of Rakesh.

=> Ans - (C)

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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 figures ?



- A
- B
- C
- D

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 arrow pointing at top left in the middle will now face top right, thus the second and fourth options will be eliminated.

Also, in the question figure, the circle is inside the figure, so it will stay inside but its position will be reversed, hence third option is the right image.

=> Ans - (C)

Question 24

Identify the diagram that best represents the relationship among the given classes. Cigarettes, Tobacco products, Alcohol

- A 
- B 
- C 
- D 

Answer: B

Explanation:

All cigarettes are tobacco products, but alcohol is different from them, hence the venn diagram that best describes above relationship is :







=> Ans - (B)

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.



- A 
- B 
- C 
- D 

Answer: B

Explanation:

When the paper is unfolded, the pattern of cutting will be similar in four parts of the paper.

When the paper is unfolded first to the top, a rhombus will appear at the centre of the left part of paper.

When the paper is unfolded again to the right, a rectangle will form at the centre of the paper and a rhombus will appear similarly on the right part of the paper.

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



Hence, the correct answer is Option B

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General Awareness

Instructions

For the following questions answer them individually

Question 26

Khajuraho Group of monuments are attributed to which dynasty?

- A Chandela
- B Mughal
- C Maurya
- D Shunga

Answer: A

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Question 27

Ravuri Bharadhwaja won Jnanpith Award for work in which language?

- A Gujarati
- B Marathi
- C Hindi
- D Telugu

Answer: D

Question 28

The primary function of RNA is

- A Photosynthesis
- B Protein Synthesis
- C Replication
- D Translation

Answer: B

Question 29

.....is the movement of molecules across a cell membrane from a region of their lower concentration to a region of their higher concentration.

- A Diffusion
- B Osmosis
- C Active Transport
- D Passive Transport

Answer: C

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Question 30

Study of classification of organisms is known as

- A Serpentology
- B Virology
- C Taxonomy
- D Physiology

Answer: C

Question 31

Which of the following elements has the lowest melting point?

- A Iodine
- B Lead
- C Tin
- D Mercury

Answer: D

Question 32

The common name of sodium bicarbonate is

- A baking soda
- B borax
- C bleach
- D epsom salt

Answer: A

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Question 33

A computer language that expresses the presentation of structured documents, such as CSS, is called

- A Command Language
- B Machine Language
- C Markup Language
- D Style Sheet Language

Answer: D

Question 34

Who started Ganesha Festival?

- A Mahatma Gandhi
- B Lokmanya Tilak
- C Pandit Nehru
- D Indira Gandhi

Answer: B

Question 35

If hiring an extra worker increases a brick making unit's output from 2000 to 2250 units per day, but the factory has to reduce the price of its brick from Rs 15 to Rs 14 per brick to sell the additional output, the marginal revenue product of the last worker is

- A Rs 1500
- B Rs 250
- C Rs 3000
- D Rs 100

Answer: A

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Question 36

Which is the unemployment which exists in any economy due to people being in the process of moving from one job to another?

- A Seasonal unemployment
- B Cyclical unemployment
- C Frictional unemployment
- D Structural unemployment

Answer: C

Question 37

The highest number of tube wells is found in which one of the following countries?

- A India

- B Saudi Arabia
- C America
- D China

Answer: A

Question 38

The soil found in the Eastern and Western coasts of India is

- A Red Rocky
- B Laterite
- C Black Cotton
- D Alluvial

Answer: B

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Question 39

Which of the following is a free encyclopedia, written collaboratively by the people who use it?

- A Google
- B Wikipedia
- C Encyclopedia
- D Yahoo

Answer: B

Question 40

Equal day/night in both hemispheres is on

- A 21st June and 21st March
- B 5th July and 21st September
- C 21st March and 23rd September
- D 5th June and 21st September

Answer: C

Question 41

Prague is the Capital City of

- A Saudi Arabia
- B North Korea
- C Czech Republic

D Trinidad and Tobago

Answer: C

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Question 42

Shahjahan built the Taj Mahal for?

A Marjani

B Mehbooba

C Mehjabeen

D Mumtaz

Answer: D

Question 43

In which year, Shivaji was crowned as the Chhatrapati?

A 1608

B 1646

C 1674

D 1710

Answer: C

Question 44

Who Invented the nuclear reactor?

A Enrico Fermi

B Adolf Gaston Eugen Fick

C Sandford Fleming

D Benoit Fourneyron

Answer: A

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Question 45

What is the angle between centripetal acceleration and tangential acceleration?

A 90°

B 45°

C 0°

D 180°

Answer: A

Question 46

Rectifiers convert

- A high voltage to low voltage
- B low voltage to high voltage
- C AC to DC
- D DC to AC

Answer: C

Question 47

Nationalist Congress Party was founded in

- A 1925
- B 1955
- C 1984
- D 1999

Answer: D

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Question 48

Bharatiya Janata Party is a part of which political group?

- A United Progressive Alliance
- B National Democratic Alliance
- C Janata Parivar
- D Rashtra Parivar

Answer: B

Question 49

Hopman cup is related to

- A Badminton
- B Lawn tennis
- C Cricket
- D Hockey

Answer: B

Question 50

Who wrote the book -"The Argumentative Indian"?

- A Amartya Sen
- B Anita Desai
- C Arun Shourie
- D Arundhati Roy

Answer: A

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Mathematics

Instructions

For the following questions answer them individually

Question 51

If $6x + 4(2-x) > 3x - 2 > 5x/2 - x/4$; then value of x is

- A 0
- B 1
- C 3
- D 2

Answer: C

Explanation:

Expression 1 : $6x + 4(2-x) > 3x - 2$

$$\Rightarrow 6x + 8 - 4x > 3x - 2$$

$$\Rightarrow 3x - 2x < 8 + 2$$

$$\Rightarrow x < 10 \text{ -----(i)}$$

Expression 2 : $3x - 2 > 5x/2 - x/4$

$$\Rightarrow 3x - 2 > \frac{9x}{4}$$

$$\Rightarrow 3x - \frac{9x}{4} > 2$$

$$\Rightarrow \frac{3x}{4} > 2$$

$$\Rightarrow x > \frac{8}{3} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $\frac{8}{3} < x < 10$

The only value that x can take among the options = 3

\Rightarrow Ans - (C)

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Question 52

What is the value of $\sin 300^\circ$?

- A $-1/2$
- B 2
- C $2/\sqrt{3}$
- D $-\sqrt{3}/2$

Answer: D

Explanation:

Expression : $\sin 300^\circ$

$$= \sin(360 - 60)$$

$$= -\sin(60)$$

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

=> Ans - (D)

Question 53

If $5/6$ th of $7/6$ th of a number is 140, then $9/4$ th of that number is

- A 225
- B 87
- C 301
- D 324

Answer: D

Explanation:

Let the number be x

$$\Rightarrow \frac{5}{6} \times \frac{7}{6} \times x = 140$$

$$\Rightarrow x = 140 \times \frac{36}{35} = 4 \times 36$$

$$\Rightarrow x = 144$$

$$\therefore 9/4\text{th of the number} = \frac{9}{4} \times 144$$

$$= 9 \times 36 = 324$$

=> Ans - (D)

Question 54

When a discount of 20% is given on a pizza, the profit is 32%. If the discount is 18%, then the profit is

- A 50 percent
- B 64.7 percent
- C 35.3 percent
- D 20.6 percent

Answer: C

Explanation:

Let Marked Price = Rs. $100x$

When discount is 20%, Selling price = $\frac{100-20}{100} \times 100x = Rs.80x$

Let Cost price = $Rs.y$

$$\text{Profit \%} = \frac{80x-y}{y} \times 100 = 32$$

$$\Rightarrow \frac{80x-y}{y} = \frac{32}{100} = \frac{8}{25}$$

$$\Rightarrow 2000x - 25y = 8y$$

$$\Rightarrow 25y + 8y = 2000x$$

$$\Rightarrow y = \frac{2000x}{33} = 60.6x$$

When discount is 18%, Selling price = $\frac{100-18}{100} \times 100x = Rs.82x$

$$\therefore \text{Profit \%} = \frac{82x-60.6x}{60.6x} \times 100$$

$$\approx 35.3\%$$

\Rightarrow Ans - (C)

Shortcut:

$$\text{Required profit} = \frac{(100 - 18) \times (100 + 32)}{(100 - 20)} = \frac{82 \times 132}{80} = 135.3 = (100 + 35.3) - - > 35.3\%.$$

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Question 55

Two students appeared for an examination. One of them secured 16 marks more than the other and his marks were 75% of the sum of their marks. The marks obtained by them are

- A 98 and 82
- B 49 and 33
- C 96 and 80
- D 24 and 8

Answer: D

Explanation:

Let marks scored by 1st student = x

\Rightarrow Marks scored by another student = $(x + 16)$

According to question, $\Rightarrow (x + 16) = \frac{75}{100} \times (x + x + 16)$

$$\Rightarrow x + 16 = \frac{3}{2} \times (x + 8)$$

$$\Rightarrow 2x + 32 = 3x + 24$$

$$\Rightarrow x = 32 - 24 = 8$$

\therefore Marks scored by other student = $8 + 16 = 24$

\Rightarrow Ans - (D)

Question 56

Rehman goes on a trip on his motor-cycle and rides for 661 kms. If he rides for 8 hours at a speed of 31 km/hr, find at what speed he travels for the remaining 7 hours of the journey?

- A 50 km/hr

- B 42 km/hr
- C 53 km/hr
- D 59 km/hr

Answer: D

Explanation:

Total distance covered = 661 km

He rides for 8 hours at a speed of 31 km/hr

=> Distance covered = $8 \times 31 = 248$ km

Distance left = $661 - 248 = 413$ km

∴ Speed he should travel for the remaining 7 hours of the journey = $\frac{413}{7} = 59$ km/hr

=> Ans - (D)

Question 57

In a class of 50 students there are 27 girls. The average weight of these girls is 45 kg and average weight of the full class is 49.6 kgs. What is the average weight of the boys of the class?

- A 55
- B 54.2
- C 53.4
- D 53

Answer: A

Explanation:

Total number of students = 50 and number of girls = 27

=> Number of boys in class = $50 - 27 = 23$

Average weight of girls = 45 kg

=> Total weight of girls = $45 \times 27 = 1215$ kg

Similarly, total weight of full class = $49.6 \times 50 = 2480$ kg

=> Total weight of boys = $2480 - 1215 = 1265$ kg

∴ Average weight of boys = $\frac{1265}{23} = 55$ kg

=> Ans - (A)

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Question 58

The third proportional of two numbers 4 and 20 is

- A 36
- B 40
- C 100
- D 60

Answer: C

Explanation:

Three numbers a,b,c are in proportion iff $b^2 = ac$

Here, a = 4 and b = 20

$$\Rightarrow (20)^2 = 4 \times c$$

$$\Rightarrow c = \frac{20 \times 20}{4} = 5 \times 20$$

$$\Rightarrow c = 100$$

\Rightarrow Ans - (C)

Question 59

Mandeep works 3 times as fast as Sampat. If Sampat can complete a job alone in 60 days, then in how many days can they together finish the job?

A 7 days

B 4 days

C 5 days

D 15 days

Answer: D

Explanation:

Let total work to be done = 60 units

Sampat can complete a job alone in 60 days

$$\Rightarrow \text{Sampat's efficiency} = \frac{60}{60} = 1 \text{ unit/day}$$

Also, Mandeep works 3 times as fast as Sampat

$$\Rightarrow \text{Mandeep's efficiency} = 3 \times 1 = 3 \text{ units/day}$$

(Sampat+Mandeep)'s 1 day's work together = $1 + 3 = 4$ units/day

$$\therefore \text{Time taken by them to finish the job together} = \frac{60}{4} = 15 \text{ days}$$

\Rightarrow Ans - (D)

Question 60

Reflection of the point (3,-6) in the y-axis is

A (3,6)

B (3,-6)

C (-3,-6)

D (-3,6)

Answer: C

Explanation:

Reflection of point (x,y) in the y-axis is (-x,y)

$$\Rightarrow \text{Reflection of point (3,-6)} = (-3,-6)$$

\Rightarrow Ans - (C)

Question 61

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

- A cosecA
- B sinA
- C tanA
- D secA

Answer: B

Explanation:

Expression : $\sqrt{1 - \cos^2 A}$

$$\therefore (\sin^2 A + \cos^2 A = 1)$$

$$= \sqrt{\sin^2 A} = \sin A$$

=> Ans - (B)

Question 62

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

- A secA - tanA
- B cosecA + tanA
- C secA + tanA
- D cosecA - tanA

Answer: C

Explanation:

Expression : $\cos A / (1 - \sin A) = x$

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

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

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

$$= \frac{1 + \sin A}{\cos A} = \left(\frac{1}{\cos A} + \frac{\sin A}{\cos A} \right)$$

$$= \sec A + \tan A$$

=> Ans - (C)

Question 63

Simplify $576b^3x^2a^4z^3 / 36a^3b^2z$

- A $16bx^2az^2$
- B bx^2a^2z
- C $32ba^2z$
- D $32bx^a2z$

Answer: A

Explanation:

Expression : $576b^3x^2a^4z^3/36a^3b^2z$

$$= \frac{576}{36} \times \frac{b^3x^2a^4z^3}{b^2a^3z}$$

$$= 16 \times (b)^{3-2}(x)^2(a)^{4-3}(z)^{3-1}$$

$$= 16bx^2az^2$$

=> Ans - (A)

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Question 64

If $x + y = 13$ and $x^2 + y^2 = 89$, then find xy is

A 80

B 169

C 258

D 40

Answer: D

Explanation:

Given : $(x + y) = 13$ and $x^2 + y^2 = 89$

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

$$\Rightarrow (13)^2 = 89 + (2 \times xy)$$

$$\Rightarrow 2xy = 169 - 89 = 80$$

$$\Rightarrow xy = \frac{80}{2} = 40$$

=> Ans - (D)

Question 65

If the selling price is Rs 2125 after getting a discount of 15% what was the marked price?

A Rs 2443.75

B Rs 1806.25

C Rs 1847

D Rs 2500

Answer: D

Explanation:

Let Marked Price = Rs. x

Selling price = Rs. 2125

$$\text{Discount \%} = \frac{(x-2125)}{x} \times 100 = 15$$

$$\Rightarrow \frac{x-2125}{x} = \frac{15}{100} = \frac{3}{20}$$

$$\Rightarrow 20x - 42500 = 3x$$

$$\Rightarrow 20x - 3x = 42500$$

$$\Rightarrow x = \frac{42500}{17} = \text{Rs } 2500$$

\Rightarrow Ans - (D)

Question 66

What is the equation of the line passing through the point (1,3) and making an angle of -45° with the positive x-axis?

A $x + y = 4$

B $x + y = 2$

C $x - y = 4$

D $x - y = 2$

Answer: A

Explanation:

Slope of line making an angle of -45° with the positive x-axis = $\tan(-45^\circ)$

$$\Rightarrow \text{Slope, } m = -\tan(45) = -1$$

Line is passing through point (1,3)

Equation of line having slope m and passing through (x_1, y_1) is: $(y - y_1) = m(x - x_1)$

$$\Rightarrow (y - 3) = -1(x - 1)$$

$$\Rightarrow y - 3 = -x + 1$$

$$\Rightarrow x + y = 4$$

\Rightarrow Ans - (A)

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Question 67

The measures of the four angles of a quadrilateral are in the ratio 1:2:3:4. What is the measure of the biggest angle?

A 36°

B 144°

C 72°

D 108°

Answer: B

Explanation:

Let the four angles of the quadrilateral be $x, 2x, 3x$ and $4x$

Sum of internal angles of a quadrilateral = 360°

$$\Rightarrow x + 2x + 3x + 4x = 360^\circ$$

$$\Rightarrow 10x = 360^\circ$$

$$\Rightarrow x = \frac{360}{10} = 36^\circ$$

$$\therefore \text{Biggest angle} = 4x = 4 \times 36 = 144^\circ$$

\Rightarrow Ans - (B)

Question 68

A tent is to be built in the form of a cylinder of radius 5 m surmounted by a cone of the same radius. If the height of the cylindrical part is 6 m and slant height of the conical part is 10 m, how much canvas will be required to build the tent? Allow 20% extra canvas for folding and stitching. (Take $\pi = 22/7$)

- A 829.72 sq mts
- B 414.86 sq mts
- C 1244.58 sq mts
- D 207.43 sq mts

Answer: B

Explanation:

Radius of cone = Radius of cylinder = $r = 5$ m

Height of cylinder = $h = 6$ m

Slant height of cone = $l = 10$ m

Canvas required = Curved surface area of cylinder + Curved surface area of cone

$$= 2\pi rh + \pi rl = (\pi r)(2h + l)$$

$$= \left(\frac{22}{7} \times 5\right)(2 \times 6 + 10)$$

$$= \frac{110}{7} \times 22 = 345.71 \text{ m}^2$$

Also, 20% extra canvas is required for folding and stitching

$$\therefore \text{Total canvas required} = \frac{120}{100} \times 345.71$$

$$= 1.2 \times 345.71 \approx 414.86 \text{ m}^2$$

=> Ans - (B)

Question 69

The sum of the digits of a 2-digit number is 8. If we add 36 to the number, the new number obtained is a number formed by interchange of the digits. What is the number?

- A 26
- B 62
- C 34
- D 43

Answer: A

Explanation:

Let the unit's digit of the number be y and ten's digit be x

$$\Rightarrow \text{Number} = 10x + y$$

$$\text{Sum of digits, } x + y = 8 \text{ -----(i)}$$

$$\text{According to question, } \Rightarrow 10x + y + 36 = 10y + x$$

$$\Rightarrow 9y - 9x = 36$$

$$\Rightarrow y - x = \frac{36}{9} = 4 \text{ -----(ii)}$$

Adding equations (i) and (ii), we get :

$$\Rightarrow (y + y) = (8 + 4)$$

$$\Rightarrow y = \frac{12}{2} = 6$$

Substituting it in equation (i), $\Rightarrow x = 8 - 6 = 2$

\therefore Number = 26

\Rightarrow Ans - (A)

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Question 70

In which of the following quadrilaterals both pairs of opposite sides are parallel?

- A Rhombus
- B Cyclic quadrilateral
- C Kite
- D Isosceles trapezium

Answer: A

Explanation:

In an isosceles trapezium only one pair of opposite sides is parallel, while in a cyclic quadrilateral and a kite, none of the opposite sides is parallel, but in a rhombus both pairs of opposite sides are parallel.

\Rightarrow Ans - (A)

Question 71

A bank offers 10% compound interest per half year. A customer deposits Rs. 5200 each on 1st January and 1st July of a year. At the end of the year, the amount he would have profit by way of interest is:

- A Rs 3224
- B Rs 1612
- C Rs 806
- D Rs 403

Answer: B

Explanation:

The interest earned on 5200 from Jan to July will be $5200 \times 10 \times \frac{1}{100}$ (Since rate of interest is 10 % per 6 months)
 $= 52 \times 10 = 520$

Hence, 5200 will amount to 5720. He adds another 5200 to this. So the net amount becomes $5200 + 5720 = 10920$

Now interest earned on this amount in a period of 6 months will be $10920 \times 10 \times \frac{1}{100} = 1092$

So the final amount will be $10920 + 1092 = 12012$

Total money he deposited = $5200 + 5200 = 10400$

Hence, amount earned via interest = $12012 - 10400 = 1612$

\Rightarrow Ans - (B)

Question 72

Read the data and answer the questions ?

	Boys	Girls
Medical	25	40
Engineering	60	25

What percent of the students who choose engineering are girls ?

- A 41.67
- B 16.67
- C 38.46
- D 29.41

Answer: D

Explanation:

Number of girls who chose engineering = 25

Total number of engineers = 60 + 25 = 85

=> Percent of the girls who choose engineering = $\frac{25}{85} \times 100$

= $\frac{500}{17} = 29.41\%$

=> Ans - (D)

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Question 73

Read the data answer the given questions

	Cumulative production
January	690
February	1000
March	1300
April	1760
May	2430
June	2720

How many cars were manufactured in the month of April and May

- A 760
- B 960
- C 1130
- D 4190

Answer: C

Explanation:

Number of cars produced in :

January = 690

February = 1000 - 690 = 310

March = 1300 - 1000 = 300

April = 1760 - 1300 = 460

$$\text{May} = 2430 - 1760 = 670$$

$$\text{June} = 2720 - 2430 = 290$$

=> Number of cars that were manufactured in the month of the April and may = $460 + 670 = 1130$

=> Ans - (C)

Question 74

Read the data and answer the questions

Day of the week	Distance jogged (in km)
Monday	5
Tuesday	4.5
Wednesday	0.5
Thursday	0.5
Friday	0.5
Saturday	4
Sunday	1

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

- A 1280 calories
- B 1330 calories
- C 1230 calories
- D 1180 calories

Answer: A

Explanation:

Total distance jogged in entire week

$$= 5 + 4.5 + 0.5 + 0.5 + 0.5 + 4 + 1 = 16 \text{ km}$$

Calories burned after jogging 5 km = 400 calories

$$\Rightarrow \text{Calories burned after jogging 16 km} = \frac{400}{5} \times 16$$

$$= 80 \times 16 = 1280 \text{ calories}$$

=> Ans - (A)

Question 75

Read the given data and answer the questions

Items	Yearly expence in lakhs
Raw Materilas	10
Labour	3
Rent	4
Interest	2
Taxes	1

Labour and interest are what percent of total expenses?

- A 10.5 percent
- B 17.75 percent
- C 25 percent
- D 32.25 percent

Answer: C

Explanation:

Yearly expense in labour and interest (in lakhs) = 3 + 2 = 5

Total expenses (in lakhs) = 10 + 3 + 4 + 2 + 1 = 20

=> Required % = $\frac{5}{20} \times 100$

= $\frac{100}{4} = 25\%$

=> Ans - (C)

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English

Instructions

For the following questions answer them individually

Question 76

Select the synonym of succulent

- A torrid
- B luscious
- C arid
- D bare

Answer: B

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Question 77

Select the word with the correct spelling.

- A stamppede
- B easemant
- C cul-de-sac
- D ripostes

Answer: D

Question 78

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. a state of stunned confusion or bewilderment

- A snarl
- B maze
- C daze
- D paradox

Answer: C

Question 79

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 majestic Himalayas are revered, for from themthe life sustaining river, mother Ganga.

- A derives
- B exudes
- C emanates
- D radiates

Answer: C

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Question 80

Improve the bracketed part of the sentence.

The kids are happy. They (were playing) in the pool since noon.

- A are playing
- B played
- C have been playing
- D no improvement

Answer: C

Question 81

Select the synonym of
snarl

- A growl
- B empathy
- C accord
- D amity

Answer: A

Question 82

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.
To delay or prevent someone or something by obstructing them

- A to perturb
- B to impede
- C to irk
- D to faze

Answer: B

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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.
By the seat of one's pants

- A When one is saved in the nick of time
- B Your future depends on what choices you make now
- C To do it using only one's own experience and judgment
- D Nothing worthwhile can be achieved if you sit in one place

Answer: C

Question 84

Rearrange the parts of the sentence in correct order

The pesticides

P-are more harmful than

Q-those used in many other parts of the world

R-used in India

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

Answer: C

Question 85

Improve the bracketed part of the sentence. The sink is leaking, we had better (send for) a plumber.

- A be sending for
- B been sending for
- C send off
- D no improvement

Answer: D

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Question 86

Select the antonym of
panacea

- A malady

- B cure
- C elixir
- D nostrum

Answer: A

Question 87

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.
Discretion is the greater part of valour

- A To be brave in any situation
- B Caution is preferable to rash bravery
- C A genuinely brave person is always humble
- D If you are over-cautious then you cannot achieve great things

Answer: B

Question 88

Select the antonym of
cameo

- A trinket
- B gem
- C bauble
- D plain

Answer: D

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Question 89

Rearrange the parts of the sentence in correct order

The last issue

P-can bend policy by virtue of its control over its users

Q-how a powerful monopoly

R-we need to examine is

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

Answer: D

Question 90

Select the word with the correct spelling.

- A ceramix
- B bulwaark
- C adjourns
- D studiuos

Answer: C

Question 91

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.

Siddharthahis wife and children, and left for the mountains.

- A renounced
- B deserted
- C neglected
- D relinquished

Answer: A

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Question 92

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 emperor was impressed with the singer and asked, 'What can I do for you?'

- A The emperor impressed with the singer and asked that what he could do for him.
- B The emperor was impressed with the singer and asked what he could do for him.
- C The emperor impressed with the singer asked what could be done for him.
- D The emperor was impressed with the singer and asked what could be done for him.

Answer: B

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'.

Vicky is the one who(A)/always finds faults with(B)/whatever Priya does.(C)/No error(D)

- A Vicky is the one who
- B always finds faults with
- C whatever Priya does.
- D No error

Answer: D

Question 94

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 online shopping site lowered the prices.

- A Lowering of the prices was done by the online shopping site.
- B The prices were lowered by the online shopping site.
- C The prices had been lowered by the online shopping site.
- D The prices have been lowered by the online shopping site.

Answer: B

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Question 95

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'.

Some are born great.(A)/Some achieve greatness(B)/and some had greatness thrust on them.(C)/No error(D)

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

Answer: C

Instructions

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

Irony.word captures our response to the ongoing nationwide drought in more ways than one. We have woken.....the reality of drought a full six months after the end of monsoon. After waking up, we focusthe drinking water.....in urban centres and not the multidimensional crisis of life and livelihood inhinterland.

Question 96

Irony.word captures our response to the ongoing nationwide drought

- A This one
- B That one
- C One
- D A

Answer: A

Question 97

We have wokenthe reality of drought

- A up

B up to

C to

D for

Answer: B

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Question 98

After waking up, we focus

A on

B in

C into

D upon

Answer: A

Question 99

drinking waterin urban centres

A dilemma

B trouble

C impasse

D crisis

Answer: D

Question 100

multidimensional crisis of life and livelihood inhinterland

A rustic

B village

C rural

D urban

Answer: C

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