



SSC CHSL 31 Jan 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.

Zoology : Animals : : Virology : ?

- A Mitochondria
- B Virus
- C Protozoa
- D Bacteria

Answer: B

Explanation:

Zoology is the scientific study of the animals, similarly Virology is the branch of science that deals with the study of *viruses*.

=> Ans - (B)

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Question 2

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

PLUMBER : REBMULP : : ? : LABREV

- A VEBRAL
- B VERBLE
- C VERBAL
- D VABREL

Answer: C

Explanation:

Expression = PLUMBER : REBMULP : : ? : LABREV

The pattern followed is that the word is written in *reverse* order, i.e. first letter at last position, second at second last and so on.

Similarly, reverse of **VERBAL** : LABREV

=> Ans - (C)

Question 3

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

Hi : Sr :: Fg : ?

A Hi

B dC

C Ut

D Jk

Answer: C

Explanation:

Expression = Hi : Sr :: Fg : ?

Alphabets at the corresponding position from the reverse end are written, first letter being capital and other being small.

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, Fg : Ut

=> Ans - (C)

Question 4

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

11 : 132 :: 12 : ?

A 130

B 160

C 156

D 158

Answer: C

Explanation:

Expression = 11 : 132 :: 12 : ?

The pattern followed is $= x : x(x + 1)$

Eg :- 11 : 11(11 + 1) = 11 : 132

Similarly, $12 \times (12 + 1) = 12 \times 13 = 156$

=> Ans - (C)

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Question 5

Find out the odd word/letters/number/number pair from the given alternatives.

- A Condemn
- B Criticize
- C Reproach
- D Praise

Answer: D

Explanation:

Condemn, criticize and reproach are expressions of disappointment, hence praise is the odd one out.

=> Ans - (D)

Question 6

Find out the odd word/letters/number/number pair from the given alternatives.

- A BC
- B IF
- C CL
- D GH

Answer: A

Explanation:

If all alphabets are numbered in ascending order, A=1 , B=2 , C=3 , D=4 and so on.

=> BC = 23 , IF = 96 , CL = 312 , GH = 78

Now, only 23 is a prime number, hence BC is the odd one out.

=> Ans - (A)

Question 7

Find out the odd word/letters/number/number pair from the given alternatives.

A 2714

B 8432

C 6742

D 7858

Answer: D

Explanation:

The pattern followed is that the product of first two digits is equal to the last 2 digits.

Eg :- $2 \times 7 = 14$, $8 \times 4 = 32$ and $6 \times 7 = 42$

But $7 \times 8 \neq 58$, hence 7858 is the odd one out.

=> Ans - (D)

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Question 8

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

A 687

B 777

C 993

D 745

Answer: D

Explanation:

Apart from 745, sum of digits of other numbers is 21, hence 745 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.

?, flight lieutenant, squadron leader, wing commander

A Flying officer

B Air marshal

C Air vicemarshal

D Group captain

Answer: A

Explanation:

Posts of an air force officer in increasing order.

= Flying officer -> Flight lieutenant -> Squadron leader -> Wing commander

=> 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.

12, 24, 72, 288, ?

A 1440

B 3250

C 3025

D 2025

Answer: A

Explanation:

Consecutive integers are multiplied.

$$12 \times 2 = 24$$

$$24 \times 3 = 72$$

$$72 \times 4 = 288$$

$$288 \times 5 = 1440$$

=> Ans - (A)

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Question 11

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) Major companies are nowadays surviving because of the strong supply chain system.

(II) Supply chain comprises of logistics, retailers and distributors.

Conclusions:

(I) Retailers play most important role because they interact with customers on first hand.

(II) If an organization has strong logistics, then product can easily be available to the customers in such an era of competition.

- 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

Question 12

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

FU, GT, HS, IR, ?

- A JQ
- B KO
- C MN
- D EF

Answer: A

Explanation:

Expression : FU, GT, HS, IR, ?

The pattern followed in each letter of the terms is :

1st letter : F (+1 letter) = G (+1 letter) = H (+1 letter) = I (+1 letter) = J

2nd letter : U (-1 letter) = T (-1 letter) = S (-1 letter) = R (-1 letter) = Q

Thus, missing term = **JQ**

=> Ans - (A)

Question 13

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

OP, RS, VW, ? , GH

A ZA

B AB

C CD

D GE

Answer: B

Explanation:

Expression : OP, RS, VW, ? , GH

The pattern followed in each letter of the terms is :

1st letter : O (+3 letters) = R (+4 letters) = V (+5 letters) = A (+6 letters) = G

2nd letter : P (+3 letters) = S (+4 letters) = W (+5 letters) = B (+6 letters) = H

Thus, missing term = **AB**

=> Ans - (B)

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Question 14

Ankit scored 32, 45 and 49 marks in Physics, English and Philosophy respectively. The maximum marks in each subject is 50. Determine his overall percentage for the three subjects.

A 58

B 50

C 42

D 84

Answer: D

Explanation:

Total marks scored by Ankit in Physics, English and Philosophy respectively = $32 + 45 + 49 = 126$

Total aggregate marks of the three subjects = $3 \times 50 = 150$

∴ Required percentage = $\frac{126}{150} \times 100$

$$= \frac{126}{3} \times 2 = 84\%$$

=> Ans - (D)

Question 15

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

- i. Premanifest
- ii. Premalignant
- iii. Premake
- iv. Premarital

A ii, iii, iv, i

B iii, ii, i, iv

C iv, i, ii, iii

D i, ii, iii, iv

Answer: B

Explanation:

As per the order of dictionary :

= Premake -> Premalignant -> Premanifest -> Premarital

≡ iii, ii, i, iv

=> Ans - (B)

Question 16

In a certain code language, "MOBILE" is written as "OQDKNG". How is "RANGER" written in that code language?

A TCPIGT

B TCPGIT

C TPCIGT

D GTTCPT

Answer: A

Explanation:

"MOBILE" is written as "OQDKNG"

The pattern followed is :

M	O	B	I	L	E
(+2)	(+2)	(+2)	(+2)	(+2)	(+2)
O	Q	D	K	N	G

Similarly, for RANGER :

R	A	N	G	E	R
(+2)	(+2)	(+2)	(+2)	(+2)	(+2)
T	C	P	I	G	T

=> Ans - (A)

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Question 17

Find the missing number in the given table

16	49	64
36	25	6
38	16	?

A 24

B 32

C 20

D 25

Answer: C

Question 18

If "A" denotes "multiplied by", "C" denotes "subtracted from", "D" denotes "added to" and "B" denotes "divided by", then

76 C 54 D 210 B 3 A 15 = ?

A 1072

B 1050

C 1830

D 1431

Answer: A

Explanation:

Expression : $76 - 54 + 210 \div 3 \times 15 = ?$

$$76 - 54 + 210 \div 3 \times 15$$

$$= 22 + (210 \times 5)$$

$$= 22 + 1050 = 1072$$

=> Ans - (A)

Question 19

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

j_l_jk_m_kl_

A jkljm

B kmjjj

C kmljm

D mkjlm

Answer: C

Explanation:

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

= jklm jklm jklm

=> Ans - (C)

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Question 20

Karan travels 20 km towards the south, and then takes a left, and travels 35 km further. Again, he takes a left and travels 20 km further. How far is he from his original position?

A 35 km

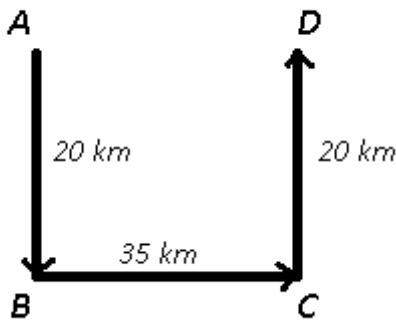
B 25 km

C 30 km

D 40 km

Answer: A

Explanation:



Let Karan start from point A and travels 20 km towards the south to reach B, and then takes a left, and travels 35 km to reach C. Again, he takes a left and travels 20 km northwards and finally stop at point D.

Thus, he is **35 km** from his original position.

=> Ans - (A)

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 S to 9. A letter from these matrices can be represented first by its row and next by its column, for example, '14' can be represented by 21, 67 etc., and 'R' can be represented by 66, 57 etc. Similarly, you have to identify the set for the word 'GRIM'.

MATRIX 1:

	0	1	2	3	4
0	Q	R	A	N	B
1	W	I	N	H	L
2	E	N	S	G	O
3	N	Y	G	O	M
4	M	T	O	F	A

MATRIX 2:

	5	6	7	8	9
5	Z	M	R	I	Q
6	X	R	N	W	A
7	C	S	Y	E	V
8	S	N	T	M	S
9	G	B	E	R	U

A 23, 57, 11, 88

B 32, 66, 58, 67

C 95, 02, 11, 86

D 23, 11, 57, 88

Answer: A

Explanation:

(A) : 23, 57, 11, 88 = GRIM

(B) : 32, 66, 58, 67 = GRIN

(C) : 95, 02, 11, 86 = GAIN

(D) : 23, 11, 57, 88 = GIRM

=> Ans - (A)

Question 22

Introducing a boy, Amarjeet says, "He is the son of the daughter of my father." How is boy related to the Amarjeet?

A Nephew

B Maternal uncle

C Son

D Cousin

Answer: A

Explanation:

Daughter of Amarjeet's father = Amarjeet's sister

Now, the boy is son of Amarjeet's sister, => Amarjeet is the boy's uncle.

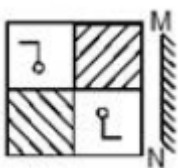
=> The boy is Amarjeet's nephew.

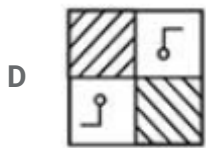
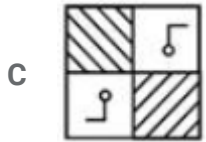
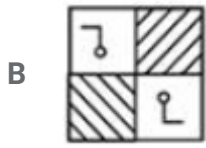
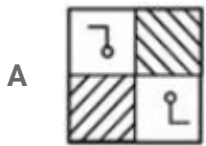
=> Ans - (A)

SSC Stenographer Previous Papers (Latest Pattern)

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.

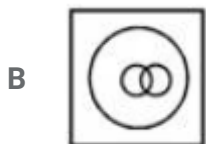
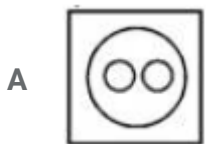
So the position of shaded boxes will be reversed, thus the first two options will be eliminated.

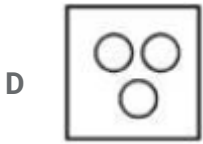
Also, in the question figure, the position of shaded lines will be reversed, hence third option is the right image.

=> Ans - (C)

Question 24

Identify the diagram that best represents the relationship among the given classes. Human being, Doctors, Postgraduates



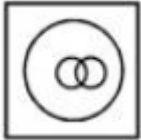


Answer: B

Explanation:

Doctors can be postgraduates and postgraduates can be doctors as well, but both of them are human beings.

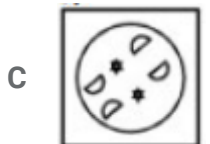
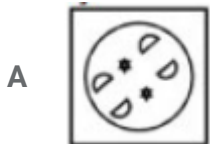
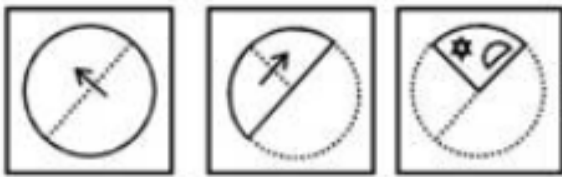
Thus, the venn diagram that best describes above relationship is :



=> Ans - (B)

Question 25

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



Answer: B

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General Awareness

Instructions

For the following questions answer them individually

Question 26

Keoladeo National Park is in

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

Answer: D

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Question 27

Which of these is the only Bollywood actor who has won National Film Award for the category of Best Actor?

- A Aamir Khan
- B Salman Khan
- C Shahrukh Khan
- D Saif Ali Khan

Answer: D

Question 28

Which drug is used to cure Incontinence?

- A Oxybutynin
- B Ranitidine
- C Azithromycin

D Levothyroxine

Answer: A

Question 29

In which part of the cell are proteins made?

A reticulum

B Golgi apparatus

C ribosomes

D lysosome

Answer: C

SSC CPO Free Mock Test (Latest Pattern)

Question 30

Polio is a disease caused by which of the following?

A Bacteria

B Mosquito

C Virus

D Cockroach

Answer: C

Question 31

Chemical formula of Ammonia is

A PH₃

B NO₂

C AlN

D NH₃

Answer: D

Question 32

Which of the following elements has the lowest melting point?

- A Oxygen
- B Platinum
- C Sodium
- D Tin

Answer: A

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Question 33

If price of an article decreases from Rs 600 to Rs 500, when quantity demanded increases from 10000 units to 12000 units. Find point elasticity of demand?

- A 1.2
- B 1.2
- C 1.5
- D 1.5

Answer: A

Question 34

The market for sugar is in equilibrium. If the supply of sugar increases, the equilibrium price of sugar willand the equilibrium quantity will

- A increase; increase
- B decrease; decrease
- C increase; decrease
- D decrease; increase

Answer: D

Question 35

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

- A BCl₃
- B Ni(CO)₄
- C CH₃OH
- D CCl₄

Answer: D

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Question 36

Pentlandite is an ore/mineral of

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

Answer: B

Question 37

Who was the first man to go to space?

- A Yuri Gagarin
- B Yuri Rontgen
- C Yuris Cui
- D Yuris Mahatinn

Answer: A

Question 38

What is the capital of Italy?

- A Tashkent
- B Rome

C Wellington

D Oslo

Answer: B

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Question 39

Nathu La pass is located in

A Pakistan

B Nepal

C Bhutan

D India

Answer: D

Question 40

Which of these countries got Independence from United Kingdom?

A Uzbekistan

B United States

C Venezuela

D South Korea

Answer: B

Question 41

The decision to effect the Partition of Bengal was announced in 1905 by?

A Lord William Bentinck

B Lord Mountbatten

C Warren Hastings

D Lord Curzon

Answer: D

SSC CHSL Syllabus

Question 42

Inventor of Instant Noodles was a citizen of which country?

- A China
- B South Korea
- C Japan
- D North Korea

Answer: C

Question 43

Find the power of a convex lens if the image formed is at a distance of 20 cm from the lens when the object is placed on the other side of the lens at 25 cm from the optical centre?

- A 1 diopters
- B 9 diopters
- C 9 diopters
- D 1 diopters

Answer: C

Question 44

What is the unit of the physical quantity "Capacitance"?

- A weber
- B farad
- C tesla
- D ohm

Answer: B

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Question 45

Parliament conductssessions each year.

- A 1
- B 2
- C 3
- D 4

Answer: C

Question 46

Who is the Founder of International Premier Tennis League?

- A Leander Paes
- B Roger Federer
- C Martina Navratilova
- D Mahesh Bhupathi

Answer: D

Question 47

Who is the author of the book "The daughter of the east"?

- A Taslima Nasreen
- B Benazir Bhutto
- C Chandrika Bhutani
- D Sharmila Tagore

Answer: B

SSC CHSL Study Material

Question 48

Which company developed 'Hack' Programming Language?

- A Google
- B Microsoft
- C Facebook
- D Apple

Answer: C

Question 49

According to the Hornbostel-Sachs system of Indian Musical Instruments, Ghungroo can be classified as

- A Chordophones
- B Aerophones
- C Membranophones
- D Idiophones

Answer: D

Question 50

What is the minimum age to become the Prime Minister of India if he or she is a member of Rajya Sabha?

- A 18
- B 25
- C 30
- D 35

Answer: C

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Mathematics

Instructions

For the following questions answer them individually

Question 51

Factorise $x^2 + 3x - 18$

A $\begin{matrix} (x+18) \\ (x-1) \end{matrix}$

B $(x+1)(x+18)$

C $\begin{matrix} (x+6) \\ (x-3) \end{matrix}$

D $(x+6)(x+3)$

Answer: C

Explanation:

Expression : $x^2 + 3x - 18$

$= x^2 + 6x - 3x - 18$

$= x(x + 6) - 3(x + 6)$

$= (x + 6)(x - 3)$

=> Ans - (C)

SSC CHSL Free Mock Test

Question 52

Rohit walks at 17 km/hr and Ruchira cycles at 22 km/hr towards each other. What was the distance between them when they started if they meet after 44 minutes?

A 42.9 km

B 35.8 km

C 21.5 km

D 28.6 km

Answer: D

Explanation:

Speed of Rohit = 17 km/hr and speed of Ruchira = 22 km/hr

They are travelling towards each other, thus relative speed = $17 + 22 = 39$ km/hr

Time taken = 44 min = $\frac{44}{60}$ hr = $\frac{11}{15}$ hr

Distance = speed \times time

$= 39 \times \frac{11}{15} = \frac{143}{5}$

$= 28.6$ km

=> Ans - (D)

Question 53

If sum of the roots of a quadratic equation is 7 and product of the roots is 12. Find the quadratic equation.

A $x^2 - 7x + 12 = 0$

B $x^2 + 7x + 12 = 0$

C $x^2 - 7x - 12 = 0$

D $x^2 + 7x - 12 = 0$

Answer: A

Explanation:

A quadratic equation is of the form : $x^2 - (\text{sum of roots})x + (\text{product of roots}) = 0$

Let the roots of equation are α and β

=> Sum of roots = $\alpha + \beta = 7$

Product of roots = $\alpha\beta = 12$

Equation : $x^2 - (\alpha + \beta)x + \alpha\beta = 0$

=> $x^2 - 7x + 12 = 0$

=> Ans - (A)

Question 54

20% discount is offered on an item. By applying a promo code the customer wins 10% cash back. What is the effective discount?

A 30.8 percent

B 30 percent

C 12 percent

D 28 percent

Answer: D

Explanation:

Let the marked price of item = Rs. $100x$

Amount after 20 % discount = $100x - \frac{20}{100} \times 100x$

= $100x - 20x = Rs.80x$

Selling price after 10 % cashback = $80x - \frac{10}{100} \times 80x$

$$= 80x - 8x = Rs.72x$$

$$\Rightarrow \text{Total discounted amount} = 100x - 72x = Rs.28x$$

$$\therefore \text{Effective discount} = \frac{28x}{100x} \times 100 = 28\%$$

\Rightarrow Ans - (D)

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Question 55

Reduce 2530/1430 to lowest terms.

A 47/17

B 23/13

C 47/19

D 29/17

Answer: B

Explanation:

$$\text{Expression : } \frac{2530}{1430}$$

Dividing both numerator and denominator by 10, we get = $\frac{253}{143}$

Similarly, dividing by 11, we get :

$$= \frac{23}{13}$$

\Rightarrow Ans - (B)

Question 56

If $5x - 3 \geq 3 + x/2$ and $4x - 2 \leq 6 + x$; then x can take which of the following values?

A 1

B 2

C -1

D -2

Answer: B

Explanation:

$$\text{Expression 1 : } 5x - 3 \geq 3 + x/2$$

$$\Rightarrow 5x - \frac{x}{2} \geq 3 + 3$$

$$\Rightarrow \frac{9x}{2} \geq 6$$

$$\Rightarrow x \geq \frac{4}{3} \text{-----(i)}$$

Expression 2 : $4x - 2 \leq 6 + x$

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

$$\Rightarrow 3x \leq 8$$

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

Combining inequalities (i) and (ii), we get : $\frac{4}{3} \leq x \leq \frac{8}{3}$

The only value that x can take among the given options = 2

\Rightarrow Ans - (B)

Question 57

The first and last terms of an arithmetic progression are -32 and 43. If the sum of the series is 88, then it has how many terms?

A 16

B 15

C 17

D 14

Answer: A

Explanation:

First term of AP, $a = -32$ and last term, $l = 43$

Let there be n terms

$$\text{Sum of AP} = \frac{n}{2}(a + l) = 88$$

$$\Rightarrow \frac{n}{2}(-32 + 43) = 88$$

$$\Rightarrow \frac{11n}{2} = 88$$

$$\Rightarrow n = 88 \times \frac{2}{11}$$

$$\Rightarrow n = 8 \times 2 = 16$$

\Rightarrow Ans - (A)

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Question 58

The difference between simple and compound interests compounded annually on a certain sum of money for 2 years at 18% per annum is Rs 81. The sum is

- A Rs 2500
- B Rs 5000
- C Rs 10000
- D Rs 7500

Answer: A

Explanation:

Let the given sum = Rs. $100x$

Rate of interest = 18% and time period = 2 years

$$\begin{aligned} \text{Compound interest} &= P\left[\left(1 + \frac{R}{100}\right)^T - 1\right] \\ &= 100x\left[\left(1 + \frac{18}{100}\right)^2 - 1\right] \\ &= 100x\left[\left(\frac{118}{100}\right)^2 - 1\right] = 100x\left(\frac{13924 - 10000}{10000}\right) \\ &= \frac{3924x}{100} \end{aligned}$$

$$\begin{aligned} \text{Simple interest} &= \frac{P \times R \times T}{100} \\ &= \frac{100x \times 18 \times 2}{100} = 36x \end{aligned}$$

$$\Rightarrow \text{Difference between simple and compound interests} = \frac{3924x}{100} - 36x = 81$$

$$\Rightarrow \frac{3924x - 3600x}{100} = 81$$

$$\Rightarrow 324x = 81 \times 100$$

$$\Rightarrow x = \frac{81 \times 100}{324} = \frac{100}{4} = 25$$

\therefore Value of given sum = $100 \times 25 = \text{Rs.}2500$

Question 59

In what ratio is the segment joining (12,1) and (3,4) divided by the Y axis?

- A 4:1
- B 1:4
- C 4:3
- D 3:4

Answer: A

Explanation:

Using section formula, the coordinates of point that divides line joining A = (x_1, y_1) and B = (x_2, y_2) in the ratio a : b

$$= \left(\frac{ax_2 + bx_1}{a+b}, \frac{ay_2 + by_1}{a+b} \right)$$

Let the ratio in which the segment joining (12,1) and (3,4) divided by the y-axis = $k : 1$

Since, the line segment is divided by y-axis, thus x coordinate of the point will be zero, let the point of intersection = $(0, y)$

Now, point P $(0, y)$ divides (12,1) and (3,4) in ratio = $k : 1$

$$\Rightarrow 0 = \frac{(3 \times k) + (12 \times 1)}{k+1}$$

$$\Rightarrow 3k + 12 = 0$$

$$\Rightarrow k = \frac{-12}{3} = -4$$

\therefore Line segment joining (12,1) and (3,4) is divided by the Y axis in the ratio = 4 : 1 externally

\Rightarrow Ans - (A)

Question 60

The line passing through (4,3) and (y,0) is parallel to the line passing through (1,2) and (3,0). Find y?

A 1

B 7

C 2

D 5

Answer: B

Explanation:

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

$$\Rightarrow \text{Slope of line passing through (1,2) and (3,0)} = \frac{0-2}{3-1} = \frac{-2}{2} = -1$$

$$\text{Slope of line passing through (4,3) and (y,0)} = \frac{0-3}{y-4} = \frac{-3}{(y-4)}$$

Also, slopes of parallel lines are equal.

$$\Rightarrow \frac{-3}{y-4} = -1$$

$$\Rightarrow y - 4 = 3$$

$$\Rightarrow y = 3 + 4 = 7$$

\Rightarrow Ans - (B)

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Question 61

A bag has Rs 20 in the form of 1 rupee, 50paise and 10paise coins in the ratio of 2:3:5. Find the number of 50paise coins.

- A 25
- B 10
- C 15
- D 5

Answer: C

Explanation:

Let the number of 1-rupee, 50-paise and 10-paise coins be $2x$, $3x$ and $5x$ respectively.

Total amount in the bag = Rs. 20

$$\Rightarrow (1 \times 2x) + \left(\frac{50}{100} \times 3x\right) + \left(\frac{10}{100} \times 5x\right) = 20$$

$$\Rightarrow 2x + \frac{3x}{2} + \frac{x}{2} = 20$$

$$\Rightarrow \frac{4x+3x+x}{2} = 20$$

$$\Rightarrow 8x = 20 \times 2 = 40$$

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

$$\therefore \text{Number of 50 paise coins} = 3x = 3 \times 5 = 15$$

\Rightarrow Ans - (C)

Question 62

In a class of 60 students there are 33 girls. The average weight of these girls is 62 Kg and average weight of the full class is 66.5 kg. What is the average weight of the boys of the class?

- A 72 kg
- B 71 kg
- C 70 kg
- D 73 kg

Answer: A

Explanation:

Total number of students = 60 and number of girls = 33

$$\Rightarrow \text{Number of boys in class} = 60 - 33 = 27$$

Average weight of girls = 62 kg

$$\Rightarrow \text{Total weight of girls} = 62 \times 33 = 2046 \text{ kg}$$

Similarly, total weight of full class = $66.5 \times 60 = 3990 \text{ kg}$

=> Total weight of boys = $3990 - 2046 = 1944$ kg

∴ Average weight of boys = $\frac{1944}{27} = 72$ kg

=> Ans - (A)

Question 63

When a number is increased by 32, it becomes 116% of itself. What is the number?

A 384

B 480

C 200

D 288

Answer: C

Explanation:

Let the number be $100x$

According to ques, => $100x + 32 = \frac{116}{100} \times 100x$

=> $100x + 32 = 116x$

=> $116x - 100x = 32$

=> $x = \frac{32}{16} = 2$

∴ Number = $100 \times 2 = 200$

=> Ans - (C)

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Question 64

If the sum of the measures of all the interior angles of polygon is 1800° , find the number of sides of the polygon?

A 12

B 14

C 16

D 8

Answer: A

Explanation:

Let number of sides of the polygon = n

Sum of all interior angles of a polygon having n sides = $(n - 2) \times 180^\circ = 1800^\circ$

$$\Rightarrow (n - 2) = \frac{1800}{180} = 10$$

$$\Rightarrow n = 10 + 2 = 12$$

\therefore The polygon having sum of interior angles 1800° has 12 sides

\Rightarrow Ans - (A)

Question 65

In an isosceles trapezium

- A Opposite sides are parallel
- B Opposite angles are supplementary
- C Opposite angles are not equal
- D Diagonals bisect opposite angles

Answer: B

Explanation:

In an isosceles trapezium, the non parallel sides are equal in length, and since one pair of sides is parallel, thus opposite angles are supplementary.

\Rightarrow Ans - (B)

Question 66

P and Q can do a project in 60 and 30 days respectively. In how many days can they complete 90% of the project if they work together?

- A 9 days
- B 27 days
- C 36 days
- D 18 days

Answer: D

Explanation:

Let total work to be done = 60 units

P can complete the work alone in 60 days

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

Q can complete the work alone in 30 days

$$\Rightarrow Q's \text{ efficiency} = \frac{60}{30} = 2 \text{ units/day}$$

(P + Q)'s 1 day's work = 1 + 2 = 3 units/day

$$\Rightarrow 90\% \text{ of the work} = \frac{90}{100} \times 60 = 54 \text{ units}$$

\therefore Time taken by them together to complete 90% of the work = $\frac{54}{3} = 18$ days

\Rightarrow Ans - (D)

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Question 67

The total surface area of a hemisphere is 166.32 sq cm, find its curved surface area?

A 221.76 sq cm

B 36.96 sq cm

C 110.88 sq cm

D 55.44 sq cm

Answer: C

Explanation:

Let radius of hemisphere = r cm

$$\text{Total surface area of hemisphere} = 3\pi r^2 = 166.32 \text{ -----(i)}$$

Multiplying equation (i) by $\frac{2}{3}$

$$\Rightarrow \frac{2}{3} \times 3\pi r^2 = \frac{2}{3} \times 166.32$$

$$\Rightarrow \text{Curved Surface area of hemisphere} = 2\pi r^2 = 2 \times 55.44 = 110.88 \text{ cm}^2$$

\Rightarrow Ans - (C)

Question 68

When a discount of 20% is given on a monthly train pass, the profit is 44%. If the discount is 29%, then the profit is

A 73 percent

B 118.2 percent

C 17.4 percent

D 27.8 percent

Answer: D

Explanation:

Let marked price of monthly train pass = Rs. 100

When discount of 20% is given, \Rightarrow Selling price of ticket = $\frac{(100-20)}{100} \times 100 = Rs.80$

Let cost price = $Rs.x$

$$\Rightarrow \text{Profit \%} = \frac{80-x}{x} \times 100 = 44$$

$$\Rightarrow \frac{80-x}{x} = \frac{44}{100} = \frac{11}{25}$$

$$\Rightarrow 2000 - 25x = 11x$$

$$\Rightarrow 11x + 25x = 36x = 2000$$

$$\Rightarrow x = \frac{2000}{36} = Rs. 55.56$$

If discount is 29%, \Rightarrow Selling price = $\frac{(100-29)}{100} \times 100 = Rs.71$

$$\Rightarrow \text{Profit \%} = \frac{71-55.56}{55.56} \times 100$$

$$= \frac{1544}{55.56} \approx 27.8\%$$

\Rightarrow Ans - (D)

Question 69

If $\tan 5\pi/3 = x$, then the value of x is

A $-\sqrt{3}$

B 1

C $1/2$

D $-\sqrt{3}/2$

Answer: A

Explanation:

Expression : $\tan 5\pi/3 = x$

$$= \tan(2\pi - \frac{\pi}{3})$$

$$= -\tan(\frac{\pi}{3}) = -\sqrt{3}$$

\Rightarrow Ans - (A)

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Question 70

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

A $\sqrt{[(1 + \cos A)/2]}$

B $\sqrt{[(1 - \cos A)/2]}$

C $\sqrt{[(1 - \sin A)/2]}$

D $\sqrt{[(1 + \sin A)/2]}$

Answer: B

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 :

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

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

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

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

\Rightarrow Ans - (B)

Question 71

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

A $1 - \operatorname{cosec} A$

B $1 + \operatorname{cosec} A$

C $1 + \sec A$

D $1 - \sec A$

Answer: B

Explanation:

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

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

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

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

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

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

$$= \frac{\sin A}{\sin A} + \frac{1}{\sin A} = 1 + \operatorname{cosec} A$$

=> Ans - (B)

Question 72

Read the data and answer the given questions

Division/STD	Boys	Girls
Div A/Standard 5	15	15
Div B/Standard 5	35	40
Div C/Standard 5	30	15
Div A/Standard 6	10	25
Div B/Standard 6	20	40
Div C/Standard 6	30	30

What is the ratio of boys to girls ?

- A 33 : 28
- B 33 : 34
- C 34 : 33
- D 28 : 33

Answer: D

Explanation:

Total number of boys = 15 + 35 + 30 + 10 + 20 + 30 = 140

Total number of girls = 15 + 40 + 15 + 25 + 40 + 30 = 165

=> Required ratio = $\frac{140}{165}$

= 28 : 33

=> Ans - (D)

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Question 73

Read the data and answer the given questions

Marks	No of Students
40 and above	25
30 and above	49
20 and above	78
10 and above	99
0 and above	118

How many students have scored above 20 marks and more but less than 40 ?

- A 49
- B 78
- C 53
- D 127

Answer: C

Explanation:

Number of students who scored :

40 and above = 25

30 and above = $49 - 25 = 24$

20 and above = $78 - 49 = 29$

10 and above = $99 - 78 = 21$

0 and above = $118 - 99 = 18$

=> Students who have scored marks 20 or more but less than 40 = $29 + 24 = 53$

=> Ans - (C)

Question 74

Read the data given in the table and answer the questions

Year	GDP growth rate in %
2011	3
2012	7
2013	-7
2014	-6
2015	-8

If the GDP of the country was \$8 trillion at the end of 2011, what was it at the beginning of 2013?

- A \$8.56 trillion
- B \$7.44 trillion
- C \$8.24 trillion
- D \$8 trillion

Answer: A

Explanation:

GDP at the beginning of 2013 is equal to the GDP at the end of 2012

=> GDP growth rate in 2012 = 7%

GDP at the end of 2011 = GDP at the beginning of 2012 = \$8 trillion

∴ GDP at the beginning of 2013 = $\frac{100+7}{100} \times 8$ trillion

= $\frac{214}{25}$ = \$8.56 trillion

=> Ans - (A)

Question 75

Read the data in the table and answer the questions

Subjects	Marks scored
English	70
Hindi	40
Maths	75
Science	35
Arts	70

Five points are to be deducted from this students average of marks scored because of poor attendance. What will be this student's net average marks scored?

- A 53
- B 48
- C 43
- D 58

Answer: A

Explanation:

Total marks scored by the student = 70 + 40 + 75 + 35 + 70 = 290

=> Average marks = $\frac{290}{5}$ = 58

But due to poor attendance, 5 marks are deducted

∴ Net average = 58 - 5 = 53

=> Ans - (A)

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English

Instructions

For the following questions answer them individually

Question 76

Select the word with the correct spelling.

- A enobles
- B theistick
- C sagacity
- D bristeled

Answer: C

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Question 77

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 insecticide is very powerful and can kill a wideof insects.

- A volume
- B spectrum
- C rainbow
- D plethora

Answer: B

Question 78

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

A soldier or sailor, who rebels or refuses to obey the orders of a person in authority.

- A radical
- B anarchist
- C mutineer
- D revolutionary

Answer: C

Question 79

Improve the bracketed part of the sentence. Many such mishaps can be avoided if we (are) careful.

- A be
- B might be
- C were
- D no improvement

Answer: D

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Question 80

Select the word with the correct spelling.

- A ambolism
- B agendoms
- C neglige
- D heckling

Answer: D

Question 81

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 swam to(A)/an island that(B)/was not far away.(C)/No error(D)

- A A

B B

C C

D D

Answer: D

Question 82

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 partners will celebrate their triumph tomorrow.

A The triumph would be celebrated by the partners a day after.

B The triumph will be celebrated by the partners tomorrow.

C The triumph would have been celebrated by the partners a day after.

D The triumph will have been celebrated by the partners tomorrow.

Answer: D

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Question 83

Select the synonym of "sinister"

A malevolent

B magnanimous

C auspicious

D benevolent

Answer: A

Question 84

Rearrange the parts of the sentence in correct order

Every government wants

P: all, they have so many votes

Q: to shower favours on

R: farmers; after

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

Answer: D

Question 85

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 two children were(A)/identical except for(B)/the colour for their eyes.(C)/No error(D)

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

Answer: C

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Question 86

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

An unintended consequence of an event or action, especially an unwelcome one.

- A reverberation
- B backlash
- C flak
- D repercussion

Answer: D

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.

I said to my sister, "where were you this evening?"

- A I asked my sister where she was that evening.
- B I asked my sister where she had been that evening.
- C I asked my sister where she was this evening.
- D I asked my sister where she has been that evening.

Answer: B

Question 88

Rearrange the parts of the sentence in correct order

Due to poor organic matter

P: in soil is below the required

Q: incorporation, organic carbon

R: level in most parts of India

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

Answer: C

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Question 89

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 best way tothe children's poor test grades is to teach again the lesson and give a second test.

- A rectify
- B right
- C revise

D reform

Answer: A

Question 90

Select the antonym of "frolic"

A drudgery

B romp

C antic

D drollery

Answer: A

Question 91

Select the antonym of "affidavit"

A affirmation

B slander

C oath

D testimony

Answer: B

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Question 92

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

to drive someone up the wall

A to make someone very irritated

B to break the barriers of misunderstanding between two persons

C to encourage someone

D to be the cause of someone's success

Answer: A

Question 93

Improve the bracketed part of the sentence.

The candidate was so ignorant that the officer was (compelled for asking) him to leave.

- A being compelled to be asking
- B so compelled to ask
- C compelled to ask
- D no improvement

Answer: C

Question 94

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

dry run

- A a party without drinks
- B a rehearsal of a performance before the real one
- C doing a fruitless task
- D escaping form an unpleasant situation

Answer: B

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Question 95

Select the synonym of "probable"

- A futile
- B plausible
- C absurd
- D preposterous

Answer: B

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.

Several countriesthe world are now replacing themodel of criminal justice partlywholly with different models of restorative justice,promising results in crime control. The process is more collaborative, consensual and inclusive, that is characteristicindigenous systems of justice.

1. Several countriesthe world

- A cross
- B across
- C beyond
- D over

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.

Several countriesthe world are now replacing themodel of criminal justice partlywholly with different models of restorative justice,promising results in crime control. The process is more collaborative, consensual and inclusive, that is characteristicindigenous systems of justice.

2. now replacing the

- A opposing
- B anti
- C against
- D adversarial

Answer: D

SSC CHSL Study Material

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.

Several countriesthe world are now replacing themodel of criminal justice partlywholly with different models of restorative justice,promising results in crime control. The process is more collaborative, consensual and inclusive, that is characteristicindigenous systems of justice.

3. model of criminal justice partly

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

Answer: A

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.

Several countriesthe world are now replacing themodel of criminal justice partlywholly with different models of restorative justice,promising results in crime control. The process is more collaborative, consensual and inclusive, that is characteristicindigenous systems of justice.

4.promising results in crime control.

- A to yield
- B yielding
- C for yielding
- D yield

Answer: B

Question 100

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

Several countriesthe world are now replacing themodel of criminal justice partlywholly with different models of restorative justice,promising results in crime control. The process is more collaborative, consensual and inclusive, that is characteristicindigenous systems of justice.

5. that is characteristicindigenous systems of justice.

A for

B as

C of

D like

Answer: C

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