



SSC GD 22nd Feb 2019 Shift-3

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Reasoning

Instructions

For the following questions answer them individually

Question 1

Identify the odd pair from the following.

- A Tuberculosis : Heart
- B Jaundice : Liver
- C Rickets : Bones
- D Night Blindness : Eyes

Answer: A

Explanation:

The disease in the first affect the body part in second, but tuberculosis affects the lungs, hence it is the odd one.

=> Ans - (A)

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Question 2

Read the given statements and conclusions carefully and decide which of the conclusions logically follow(s) from the statements.

Statements:

Some animals are birds.

Cow is an animal.

Conclusions:

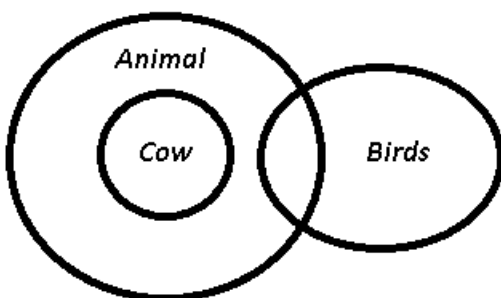
- I. Some birds are animals.
- II. Cow is not a bird.

- A Neither conclusion I nor conclusion II follows.
- B Both conclusions I and II follow.
- C Only conclusion I follows.
- D Only conclusion II follows.

Answer: C

Explanation:

The venn diagram for above statements is :



Conclusions:

- I. Some birds are animals : follows
- II. Cow is not a bird : may or may not be true.

Thus, only conclusion I follows.

=> Ans - (C)

Question 3

Identify the option that belongs to the following group.

Lamb, Calf, Tadpole

- A Amphibians
- B Puppy
- C Wild animals
- D Reptiles

Answer: B

Question 4

Four persons (two men and two women) were sitting in a restaurant. They were each seated at the north, east, south and west of a table. No woman was facing the east. Persons sitting opposite to each other were not of the same gender. One man was facing the south. Which directions were the women facing?

- A North and west
- B South and west
- C East and west
- D North and south

Answer: A

Explanation:

Let the two men be represented by M_1 and M_2 and the two women by W_1 and W_2 .

No woman was facing the east, => Let M_1 was facing east.

One man was facing the south, => M_2 was facing south.

∴ The only directions left for the two woman to face were **North and West**.

=> Ans - (A)

SSC GD Important Questions and Answers PDF

Question 5

If MARKET is coded as NCUOJZ, then RESPECT will be coded as

- A SGVTIJA
- B SGVTIJZ
- C SGVTJIZ
- D SGVTJIA

Answer: D

Explanation:

MARKET is coded as NCUOJZ

M	A	R	K	E	T
(+1)	(+2)	(+3)	(+4)	(+5)	(+6)
N	C	U	O	J	Z

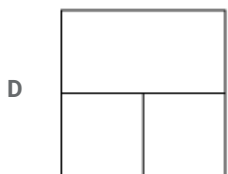
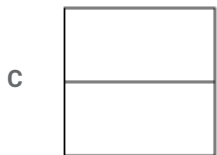
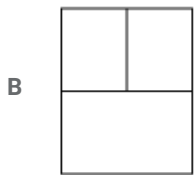
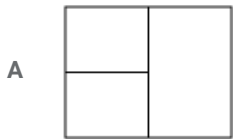
Similarly, RESPECT : SGVTJIA

R	E	S	P	E	C	T
(+1)	(+2)	(+3)	(+4)	(+5)	(+6)	(+7)
S	G	V	T	J	I	A

=> Ans - (D)

Question 6

A square transparent paper after folding looks like as shown in the figure by solid lines. How will it look when unfolded? (Rotation is not allowed)



Answer: D

Explanation:

When the figure will be unfolded, out of the two lines formed, clearly there will be a horizontal line in the middle, hence first and third options are eliminated.

Of the remaining two, the second small vertical line will be formed below the horizontal line, thus last option best describes above figure.

=> Ans - (D)

Question 7

Identify the odd one from the following.

- A Brother
- B Sister
- C Uncle
- D Friend

Answer: D

Explanation:

All of brother, sister and uncle are blood relatives, hence friend is the odd one out.

=> Ans - (D)

SSC GD Syllabus (Download PDF)

Question 8

Select the option that is related to the third number in the same way as the second number is related to the first number.

1 : 121 :: 5 :

- A 225
- B 25
- C 255
- D 125

Answer: A

Explanation:

Expression = 1 : 121 :: 5 : ?

The pattern followed is = $x : (x + 10)^2$

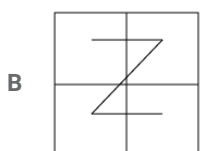
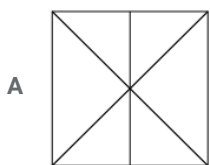
Eg :- $(1 + 10)^2 = (11)^2 = 121$

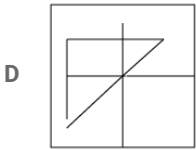
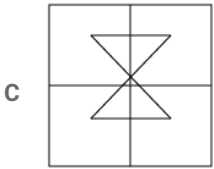
Similarly, $(5 + 10)^2 = (15)^2 = 225$

=> Ans - (A)

Question 9

Select the option in which the given figure is embedded.

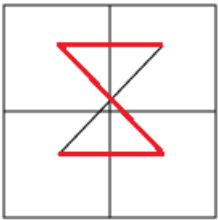




Answer: C

Explanation:

The question figure is embedded in following figure and is represented by red colour.



=> Ans - (C)

Question 10

Select the number that DOES NOT belong to the following group.

1, 1, 1.5, 3, 7.5, 22.5, 78.75, 310

A 22.5

B 310

C 78.75

D 1.5

Answer: B

Explanation:

Consecutive multiples of 0.5 are multiplied.

$$1 \times 1 = 1$$

$$1 \times 1.5 = 1.5$$

$$1.5 \times 2 = 3$$

$$3 \times 2.5 = 7.5$$

$$7.5 \times 3 = 22.5$$

$$22.5 \times 3.5 = 78.75$$

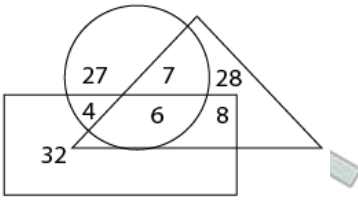
$$78.75 \times 4 = 315$$

=> Ans - (B)

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Question 11

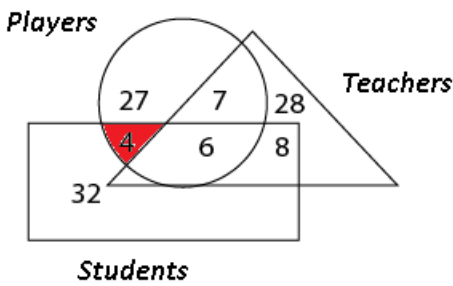
In the given Venn diagram, the rectangle represents students, the triangle represents teachers and the circle represents players. Study the diagram carefully and answer the question that follows. How many students are players but not teachers?



- A 4
- B 6
- C 8
- D 7

Answer: A

Explanation:



Students who are players but not teachers = 4

=> Ans - (A)

Question 12

There is only one dictionary in a library which will be used by 6 students P, Q, R, S, T and U, one by one. S will use it immediately after Q and before P. T will use it immediately after R and before U. Q will use the dictionary after U. Who will use the dictionary in the end?

- A S
- B U
- C Q
- D P

Answer: D

Explanation:

S will use it immediately after Q and before P, => They will use it in the order QSP

T will use it immediately after R and before U, => Order is RTU

Also, Q will use the dictionary after U, thus final arrangement is :

R
T
U
Q
S
P

∴ P will use the dictionary in the end.

=> Ans - (D)

Question 13

Identify the number pair that is different from the rest.

A 45 - 5

B 18 - 2

C 72 - 9

D 90 - 10

Answer: C

Explanation:

When we divide first number by second, we get :

(A) : $\frac{45}{5} = 9$

(B) : $\frac{18}{2} = 9$

(C) : $\frac{72}{9} = 8 \neq 9$

(D) : $\frac{90}{10} = 9$

=> Ans - (C)

SSC CPO Previous Question papers (download pdf)

Question 14

Select the option that most closely resembles the mirror image of the given word.

TWIN

A IIIWT

B NIMT

C NIWT

D TWIN

Answer: A

Question 15

If D = 3, G = 6, and OWL = 47, then FLOWER =

A 89

- B 71
- C 73
- D 82

Answer: C

Explanation:

Given : D = 3, G = 6

Thus, the alphabets are represented by consecutive whole numbers : A=0, B=1, C=2, D=3, and so on.

OWL = $14+22+11=47$

=> FLOWER = $5+11+14+22+4+17=73$

=> Ans - (C)

Question 16

Identify the number that will come in the following series.

2500, 2400, 2200, 1900, 1500,

- A 1000
- B 900
- C 1110
- D 1100

Answer: A

Explanation:

The pattern followed is :

$2500 - 100 = 2400$

$2400 - 200 = 2200$

$2200 - 300 = 1900$

$1900 - 400 = 1500$

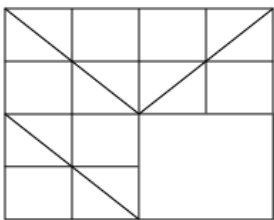
$1500 - 500 = 1000$

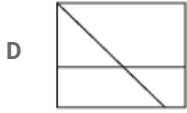
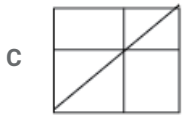
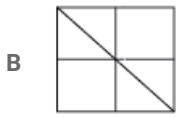
=> Ans - (A)

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Question 17

Select the correct option to complete the following pattern.

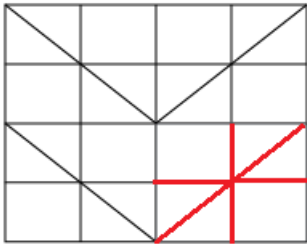




Answer: C

Explanation:

If we complete the above figure, then the missing pattern is represented by the red colour.



=> Ans - (C)

Question 18

Select the term that will come next in the following series.

Z2A, X4D, V6G, T8J, R10M,

A Q12Q

B Q12P

C P12Q

D P12P

Answer: D

Explanation:

Series : Z2A, X4D, V6G, T8J, R10M,

The numbers in the middle are consecutive even numbers.

1st letter : Z (-2 letters) = X (-2 letters) = V (-2 letters) = T (-2 letters) = R (-2 letters) = P

3rd letter : A (+3 letters) = D (+3 letters) = G (+3 letters) = J (+3 letters) = M (+3 letters) = P

Thus, missing term = P12P

=> Ans - (D)

Question 19

Select the option that is analogous to the given pair.

Nation : President

A State : Minister

B State : Chief Minister

C State : Governor

D State : Chief Secretary

Answer: C

Explanation:

President and Governor are the nominal heads of the nation and the state respectively.

Thus, State : Governor

=> Ans - (C)

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Question 20

Which two signs need to be interchanged to make the given equation correct?

$$5 \times 5 + 5 - 5 \div 5 = 5$$

A \times and $-$

B $+$ and \times

C $+$ and $-$

D \div and $-$

Answer: A

Explanation:

Expression : $5 \times 5 + 5 - 5 \div 5 = 5$

If we interchange,

(A) : \times and $-$

$$\text{L.H.S.} \equiv 5 - 5 + 5 \times 5 \div 5$$

$$= 0 + \frac{25}{5} = 5 = \text{R.H.S.}$$

=> Ans - (A)

Question 21

Six friends P, Q, R, S, T and U are watching a cricket match sitting in a stadium. P is sitting at one extreme end. T is sitting between P and U. R is sitting to the immediate left of U and immediate right of Q. Who is sitting at the extreme right end?

A S

B Q

C P

D R

Answer: C

Explanation:

P is sitting at one extreme end, the two possible cases are (assuming all are facing north).

i) : P _____

ii) : _____ P

T is sitting between P and U. R is sitting to the immediate left of U and immediate right of Q,

i) : P T U _____

ii) : _____ U T P

Thus, first case is not possible, arrangement : **S Q R U T P**

∴ **P** is sitting at extreme right end.

=> Ans - (C)

Question 22

Read the given statements and conclusions carefully and decide which of the conclusions logically follow(s) from the statements.

Statements:

The national norm is 150 beds per thousand population, but in this state, 200 beds per thousand are available in the hospitals.

Conclusions:

I. The state's norm is appropriate.

II. The state's health system is taking adequate care in this regard.

A Neither conclusion I nor conclusion II follows.

B Only conclusion I follows.

C Only conclusion II follows.

D Both conclusions I and II follow.

Answer: C

Explanation:

The given statements indicate that for every thousand population in a state, there must be 150 beds in the hospitals, and if there are more beds, we cannot conclude that it is appropriate, also, there are 200 beds in this state, thus we can definitely conclude that the state's health system is taking adequate care in this regard.

Thus, only conclusion II follows.

=> Ans - (C)

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 23

In the following number series, two numbers have been put with in brackets. Study the series carefully and select the correct alternative with respect to the series.

0, 1, 4, 9, (15), 25, 36, 49, (64), 81

A Both the bracketed numbers are incorrect.

B Both the bracketed numbers are correct.

C The first bracketed number(from the left) is incorrect and the second is correct.

D The first bracketed number(from the left) is correct and the second is incorrect.

Answer: C

Explanation:

Clearly, the above series is a combination of square of consecutive whole numbers, but the first bracket number, i.e. 15 is incorrect as it is not a perfect square, while the second bracket number 64 is correct, as $(8)^2 = 64$

Thus, the first bracketed number(from the left) is incorrect and the second is correct.

=> Ans - (C)

Question 24

Identify the odd one from the following.

- A HL
- B KN
- C CG
- D UY

Answer: B

Explanation:

(A) : H (+4 letters) = L

(B) : K (+3 letters) = N

(C) : C (+4 letters) = G

(D) : U (+4 letters) = Y

=> Ans - (B)

Question 25

Select the combination that will come next in the following series.

X	X0	XX	XX0	?
---	----	----	-----	---

A

0XX

B

XXX

C

XXX0

D

X0X

Answer: B

Explanation:

The pattern followed is that in alternate terms (odd number of terms) one 'x' is increased in each alternate term, and in (even number of terms) one 'x' is prefixed in each term.

Thus, fifth term will have one more 'x' = **xxx**

XXX

=> Ans - (B)

SSC Stenographer Previous Papers (Download PDF)

General knowledge

Instructions

For the following questions answer them individually

Question 26

What was the brand name of the first electric powered washing machine?

- A Thor
- B Images
- C Icon
- D Goliath

Answer: A

SSC GD Constable Previous Papers

Question 27

When was the Aadhaar (Targeted Delivery of Financial and Other Subsidies, Benefits and Services) Act passed?

- A 2015
- B 2017
- C 2016
- D 2014

Answer: C

Question 28

What does Individual Vulnerability refer to in Economics?

- A The threat to Intellectual property
- B The threat of Exploitation
- C The threat to health
- D The threat of poverty

Answer: D

Question 29

In the WTO's Agreement on Agriculture (AoA), what do the terms Green Box, Blue Box and AMS(Amber Box) stand for?

- A Interest
- B Subsidies
- C Bonus

D Taxes

Answer: B

SSC MTS Previous Papers (DOWNLOAD PDF)

Question 30

Which of the following animals hibernates?

A Tiger

B Bat

C Jackal

D Deer

Answer: B

Question 31

Rungrado May Stadium, the largest football stadium in the world, is located in which country?

A China

B Singapore

C North Korea

D Spain

Answer: C

Question 32

What is the highest peak of Pir Panjal Range?

A Indrasan

B Kabru

C Nanda Devi

D Kamet

Answer: A

SSC GD Constable Previous Papers (DOWNLOAD PDF)

Question 33

Who is the Padma Bhushan awardee who guided ISRO to blast its heaviest ever rocket GSLV Mark-III, paving the road to manned space missions?

A Fali Nariman

B Manohar Parrikar

C K. Radhakrishnan

D Nandan Nilekani

Answer: C

Question 34

Which country is the largest producer of mangoes as of 2018?

A Brazil

B Sri Lanka

C India

D China

Answer: C

Question 35

Who invaded India in 326 BC after crossing the river Indus, advancing towards Taxila?

A Eduardo Barbosa

B Nicolini

C Marco Polo

D Alexander

Answer: D

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 36

'Paika' is a traditional dance form associated with which Indian state?

A Uttarakhand

B Jharkhand

C Sikkim

D Madhya Pradesh

Answer: B

Question 37

Which of the following diseases is caused by bats?

A Dengue

B Zika

C Ebola

D Chikungunya

Answer: C

Question 38

Which of the following options is an ancient literary source that sheds light on the ancient period of Indian history?

- A Puranas
- B Bhagwat Gita
- C Upanishads
- D Sama Veda

Answer: A

SSC CGL Free Mock Test (Latest Pattern)

Question 39

In which country is the highest mountain peak of Africa Kilimanzaro located?

- A Kenya
- B Zambia
- C Ghana
- D Tanzania

Answer: D

Question 40

Chaukhandi Stupa is a Buddhist monument located in which Indian state?

- A Punjab
- B Uttar Pradesh
- C Sikkim
- D West Bengal

Answer: B

Question 41

'Jyotipunj' is a book written by:

- A Narendra Modi
- B Dhirubhai Ambani
- C VS. Naipaul
- D Munshi Premchand

Answer: A

SSC CHSL Free Mock Test (Latest Pattern)

Question 42

A deficiency of Vitamin A causes:

- A Anaemia
- B Goitre
- C Night blindness
- D Rickets

Answer: C

Question 43

Which acids are present in most grapes?

- A Hydrochloric and sulphuric acid
- B Nitric and sulphuric
- C Tartaric and malic acid
- D Acetic acid and nitric acid

Answer: C

Question 44

In which of the following Indian state was the game of polo born?

- A Assam
- B West Bengal
- C Arunachal Pradesh
- D Manipur

Answer: D

SSC Stenographer Previous Papers (Latest Pattern)

Question 45

The Shanti Swaroop Bhatnagar Award is given in India for contribution to the field of:

- A sports
- B social work
- C science and technology
- D literature

Answer: C

Question 46

In which city was the East India Association formed in the year 1866?

- A Kolkata
- B Singapore
- C London
- D Paris

Answer: C

Question 47

In which amendment of the Constitution was the voting age reduced from 21 to 18 years?

- A 56th
- B 70th
- C 65th
- D 61st

Answer: D

SSC GD Constable Free Mock Test (Latest Pattern)

Question 48

Federalism is a system of government in which the powers is between a central authority and various constituent units of the country.

- A Divided
- B Incited
- C Derided
- D Indicted

Answer: A

Question 49

'Teeyan' is a festival celebrated in which state of India?

- A Gujarat
- B Jammu and Kashmir
- C Rajasthan
- D Punjab

Answer: D

Question 50

What does Buffer stock mean?

- A A barrier on stock creation when surplus is available

- B A reserve of commodities used to offset deficit
- C A focus on production of one specific variety when there is a deficit
- D A preventive measure to stop excessive distribution

Answer: B

SSC MTS Free Mock Test (Latest Pattern)

Quant

Instructions

For the following questions answer them individually

Question 51

Two trains are coming from opposite side at 40 km/hrs and 50 km/hrs from the different places 360 km apart. After how many hours two trains will meet to each other?

- A 4 hrs
- B 6 hrs
- C 5 hrs
- D 3 hrs

Answer: A

Explanation:

Since, trains are travelling in opposite directions, thus effective speed = $40 + 50 = 90$ km/hr

=> Time taken to cover 360 km = $\frac{360}{90} = 4$ hours

=> Ans - (A)

SSC CPO Free Mock Test (Latest Pattern)

Question 52

The greatest number that will divide 146, 248 and 611 leaving remainders 2, 8 and 11 respectively is:

- A 47
- B 144
- C 24
- D 612

Answer: C

Explanation:

The greatest number that will divide 146, 248 and 611 leaving remainders 2, 8 and 11 respectively

= H.C.F. of $(146-2)$, $(248-8)$, $(611-11)$

= H.C.F. $(144, 240, 600) = 24$

=> Ans - (C)

Question 53

Study the Table Properly and answer by interpreting the data.

The table given the percentage of result by four different classes in the five different year of examination:

Year	Class - IX (Marks are in %)	Class - X (Marks are in %)	Class - XI (Marks are in %)	Class - XII (Marks are in %)
2012	90	80	85	75
2013	70	65	62	58
2014	65	35	32	33
2015	50	48	38	35
2016	55	45	32	38

In which class the average performance is least in all the five years?

- A Class-XII
- B Class-XI
- C Class-IX
- D Class-X

Answer: A

Explanation:

Average performance is least in all the five years for class

(A) : Class-XII = $75 + 58 + 33 + 35 + 38 = 239$ [MIN]

(B) : Class-XI = $85 + 62 + 32 + 38 + 32 = 249$

(C) : Class-IX = $90 + 70 + 65 + 50 + 55 = 330$

(D) : Class-X = $80 + 65 + 35 + 48 + 45 = 273$

=> Ans - (A)

Question 54

The value of $(6 \times 15) \div (2 \times 3) - 2^2 + 3$ is:

- A 12
- B 14
- C 4
- D 6

Answer: B

Explanation:

Expression : $(6 \times 15) \div (2 \times 3) - 2^2 + 3$

= $\frac{90}{6} - 4 + 3$

= $15 - 1 = 14$

=> Ans - (B)

Question 55

In a board examination, 75% of the total examinees passed. If the number of failures is 625, the total number of examinees is:

- A 3800
- B 2400
- C 3600
- D 2500

Answer: D

Explanation:

$$\% \text{ of failures} = (100 - 75)\% = 25\%$$

$$\text{Thus, number of failures} = 25\% \equiv 625$$

$$\Rightarrow \text{Total number of examinees} = 100\% \equiv \frac{625}{25} \times 100$$

$$= 25 \times 100 = 2500$$

\Rightarrow Ans - (D)

Question 56

Study the Table Properly and answer by interpreting the data.

The table given the percentage of result by four different classes in the five different year of examination:

Year	Class - IX (Marks are in %)	Class - X (Marks are in %)	Class - XI (Marks are in %)	Class - XII (Marks are in %)
2012	90	80	85	75
2013	70	65	62	58
2014	65	35	32	33
2015	50	48	38	35
2016	55	45	32	38

What is the average percentage of marks in Class-IX in the year 2012 to 2016?

- A 65%
- B 72%
- C 66%
- D 62%

Answer: C

Explanation:

Total percentage of marks in Class-IX in the year 2012 to 2016

$$= 90 + 70 + 65 + 50 + 55 = 330$$

$$\Rightarrow \text{Required average} = \frac{330}{5} = 66\%$$

\Rightarrow Ans - (C)

Question 57

A mixture contains milk and water in the ratio of 4 : 3. When 5 liters of water is added to this mixture, the ratio of milk and water becomes 6 : 7. The quantity of milk in the mixture is:

- A 12 liters

- B 5 liters
- C 15 liters
- D 10 liters

Answer: A

Explanation:

Let quantity of milk and water be $4x$ and $3x$ litres respectively.

According to ques,

$$\Rightarrow \frac{4x}{3x+5} = \frac{6}{7}$$

$$\Rightarrow 28x = 18x + 30$$

$$\Rightarrow 28x - 18x = 10x = 30$$

$$\Rightarrow x = \frac{30}{10} = 3$$

\therefore Quantity of milk = $4 \times 3 = 12$ litres

\Rightarrow Ans - (A)

SSC GD Free App

Question 58

A dining set having a marked price of ₹4000 is sold at a discount of 8%, thereby earning a profit of 10%. The costprice of the dining set is:

- A ₹3345.45
- B ₹3786.78
- C ₹3568.80
- D ₹3496.50

Answer: A

Explanation:

Marked price = Rs. 4000 and discount = 8%

$$\Rightarrow \text{Selling price} = \frac{(100-8)}{100} \times 4000 = \text{Rs. } 3680$$

Also profit % = 10%

$$\Rightarrow \text{Cost price} = \frac{3680}{110} \times 100 = \text{Rs. } 3345.45$$

\Rightarrow Ans - (A)

Question 59

An amount of ₹ 4600 has been distributed between x, y & z in the ratio of $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$. The share of y is:

- A 1600
- B 2000
- C 1200
- D 1800

Answer: A

Explanation:

Ratio of distribution between x, y and $z = \frac{1}{2} : \frac{2}{3} : \frac{3}{4}$

\Rightarrow L.C.M. (2,3,4) = 12

Multiplying each term by 12, we get the required ratio = 6 : 8 : 9

\therefore Y's share = $(6+8+9) \times 4600$

= $8 \times 200 = \text{Rs. } 1600$

\Rightarrow Ans - (A)

Question 60

The ratio between the speeds of two trains is 3 : 4. The second train runs 800 km in 5 hrs, and speed of first train is:

A 120 km/hrs

B 140 km/hrs

C 180 km/hrs

D 160 km/hrs

Answer: A

Explanation:

Speed of second train = $\frac{800}{5} = 160$ km/hr

Ratio of speeds of first train to second train = 3 : 4

\Rightarrow Speed of first train = $\frac{3}{4} \times 160 = 120$ km/hr

\Rightarrow Ans - (A)

SSC GD Important Questions and Answers PDF

Question 61

In a cricket team, the average age of 11 players is 22 years. When the age of team coach is included to it, the average age increases by 1. The age of coach of the team is:

A 33 years

B 34 years

C 43 years

D 53 years

Answer: B

Explanation:

Average age of 11 players = 22 years

\Rightarrow Total age of 11 players = $22 \times 11 = 242$ years

Let age of coach = x years

According to ques,

$\Rightarrow \frac{242+x}{12} = 23$

$\Rightarrow 242 + x = 23 \times 12 = 276$

$\Rightarrow x = 276 - 242 = 34$ years

=> Ans - (B)

Question 62

Sheela buys 3 pens for ₹24 and sold at 2 for ₹18 and 1 for ₹9. The profit or loss percent is:

- A Loss 12.5%
- B Profit 12%
- C Loss 12%
- D Profit 12.5%

Answer: D

Explanation:

Total cost price of 3 pens = Rs. 24

Total selling price of 3 pens = Rs. (18 + 9) = 27

$$\Rightarrow \text{Profit \%} = \frac{(27-24)}{24} \times 100$$

$$= \frac{100}{8} = 12.5\%$$

=> Ans - (D)

Question 63

Sweta can paint a wall in 30 hours, while Ansul can paint it in 40 hours. If they paint it together and get payment of ₹ 14,000. What is Ansul's share?

- A ₹6000/-
- B ₹12000/-
- C ₹10000/-
- D ₹8000/-

Answer: A

Explanation:

Ratio of time taken by Sweta and Ansul = 3 : 4

Also, efficiency is inversely proportional to time, ratio of efficiency of Sweta and Ansul = 4 : 3

$$\Rightarrow \text{Ansul's share} = \frac{3}{(4+3)} \times 14000$$

$$= 3 \times 2000 = \text{Rs. } 6000$$

=> Ans - (A)

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Question 64

What will be the compound interest on ₹6000 at 3% per annum for 2 years compounded annually?

- A ₹365.40
- B ₹653.20
- C ₹372.50

D ₹725.10

Answer: A

Explanation:

Principal sum = $P = 6000$

Rate of interest = $r = 3\%$ and time = $t = 2$ years

=> Compound interest = $P[(1 + \frac{r}{100})^t - 1]$

= $6,000[(1 + \frac{3}{100})^2 - 1]$

= $6,000[(1.03)^2 - 1]$

= $6000 \times 0.0609 = Rs. 365.40$

=> Ans - (A)

Question 65

The scores done by a bats man in a cricket series are 12, 25, 38, 56, 64, 86. What will be the median?

A 45

B 56

C 47

D 38

Answer: C

Explanation:

Scores in increasing order = 12, 25, 38, 56, 64, 86

∴ Number of terms is even, thus median = average of middle two numbers

= $\frac{(38+56)}{2} = \frac{94}{2} = 47$

=> Ans - (C)

Question 66

A trader sold a machine for ₹18,800 and lost 6%. The cost price of the machine is:

A ₹22000

B ₹24000

C ₹20000

D ₹18000

Answer: C

Explanation:

Selling price = Rs. 18,800 and loss % = 6%

=> Cost price = $\frac{18,800}{100-6} \times 100$

= $\frac{18,800}{94} \times 100$

= $200 \times 100 = Rs. 20,000$

=> Ans - (C)

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Question 67

The ratio of the area of two triangles is 2 : 3 and ratio of their height is 3 : 2. The ratio of their bases is:

- A 3:2
- B 4:9
- C 9:4
- D 2:3

Answer: B

Explanation:

Let height of the two triangles be 3 and 2 units respectively.

Let bases of the two triangles be b_1 and b_2 units respectively.

$$\Rightarrow \text{Ratio of area of triangles} = \frac{\frac{1}{2} \times b_1 \times h_1}{\frac{1}{2} \times b_2 \times h_2} = \frac{2}{3}$$

$$\Rightarrow \frac{3b_1}{2b_2} = \frac{2}{3}$$

$$\Rightarrow \frac{b_1}{b_2} = \frac{4}{9}$$

\therefore Required ratio = 4 : 9

\Rightarrow Ans - (B)

Question 68

Study the Table Properly and answer by interpreting the data.

The table given the percentage of result by four different classes in the five different year of examination:

Year	Class - IX (Marks are in %)	Class - X (Marks are in %)	Class - XI (Marks are in %)	Class - XII (Marks are in %)
2012	90	80	85	75
2013	70	65	62	58
2014	65	35	32	33
2015	50	48	38	35
2016	55	45	32	38

In Which year the average performance is maximum in all the four classes?

- A 2016
- B 2015
- C 2013
- D 2012

Answer: D

Explanation:

Average performance is maximum in the year in which total performance is maximum.

$$(A) : 2016 = 55 + 45 + 32 + 38 = 170$$

$$(B) : 2015 = 50 + 48 + 38 + 35 = 171$$

$$(C) : 2013 = 70 + 65 + 62 + 58 = 255$$

(D) : $2012 = 90 + 80 + 85 + 75 = 330$ [max]

=> Ans - (D)

Question 69

The value of $62 - 5$ of $(18 - 14) + 5 \times 7$ is equal to:

- A 18
- B 28
- C 15
- D 77

Answer: D

Explanation:

Expression : $62 - 5$ of $(18 - 14) + 5 \times 7$

$$= 62 - (5 \times 4) + (5 \times 7)$$

$$= 62 - 20 + 35 = 77$$

=> Ans - (D)

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Question 70

If the radius of the circle is decreased by 10%. The percentage decreased in its areas is :

- A 90%
- B 110%
- C 19%
- D 91%

Answer: C

Explanation:

Let radius initially = $r = 10$ cm

$$\Rightarrow \text{Area} = A = \pi(r)^2 = 100\pi \text{ cm}^2$$

$$\Rightarrow \text{New radius after 10\% decrease} = r' = 10 \times \frac{90}{100} = 9 \text{ cm}$$

$$\Rightarrow \text{New area} = A' = \pi(9)^2 = 81\pi \text{ cm}^2$$

$$\therefore \% \text{ decrease in area} = \frac{100\pi - 81\pi}{100\pi} \times 100 = 19\%$$

=> Ans - (C)

Question 71

Simple interest on a certain sum is $\frac{16}{25}$ of the total sum. If rate percent and time are same, what will be the rate of interest?

- A 6.8%
- B 5%
- C 12%

D 8%

Answer: D

Explanation:

Let total sum = Rs. $25x$

=> Simple interest = Rs. $16x$

Also, let rate of interest = time = r

Thus, simple interest = $\frac{P \times R \times T}{100}$

$$\Rightarrow \frac{25x \times r \times r}{100} = 16x$$

$$\Rightarrow 4 = 16$$

$$\Rightarrow r^2 = 16 \times 4 = 64$$

$$\Rightarrow r = \sqrt{64} = 8\%$$

=> Ans - (D)

Question 72

The average of five consecutive numbers is 15. The highest of these number is:

A 12

B 19

C 17

D 15

Answer: C

Explanation:

Average of five consecutive numbers = 15

=> Middle number = 15

Thus, the consecutive numbers are = 13,14,15,16,17

Thus, highest number = 17

=> Ans - (C)

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Question 73

Sanjya and Saumya together can finish a work in 9 days. Sanjya can do the same job on his own in 15 days. The same work Saumya can do by himself in:

A 14 days

B $15\frac{1}{2}$ days

C $22\frac{1}{2}$ days

D 22 days

Answer: C

Explanation:

Work done per unit by Saumya alone = $\frac{1}{9} - \frac{1}{15}$

$$= \frac{5-3}{45} = \frac{2}{45}$$

∴ Time taken by Saumya alone = $\frac{45}{2} = 22\frac{1}{2}$ days

⇒ Ans - (C)

Question 74

The base of the parallelogram is twice of its height and its area is 288cm^2 . The base of the parallelogram is:

A 12 cm

B 24 cm

C 36 cm

D 28 cm

Answer: B

Explanation:

Let height of parallelogram = x cm and base = $2x$ cm

⇒ Area = base \times height

$$\Rightarrow x \times 2x = 288$$

$$\Rightarrow x^2 = \frac{288}{2} = 144$$

$$\Rightarrow x = \sqrt{144} = 12$$

∴ Base = $2 \times 12 = 24$ cm

⇒ Ans - (B)

Question 75

The mean proportional between 36 and 121 is equal to:

A 72

B 85

C 66

D 157

Answer: C

Explanation:

Let the mean proportional between 36 and 121 be x

$$\Rightarrow \frac{36}{x} = \frac{x}{121}$$

$$\Rightarrow x^2 = 36 \times 121$$

$$\Rightarrow x = \sqrt{36 \times 121}$$

$$\Rightarrow x = 6 \times 11 = 66$$

⇒ Ans - (C)

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English

Instructions

For the following questions answer them individually

Question 76

From the given options, identify the segment in the sentence which contains the grammatical error.
Pragati Maidan is the famous international exhibition centre at Delhi for trade fairs.

- A for trade fairs
- B Pragati Maidan is
- C at Delhi
- D the famous

Answer: C

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Question 77

Select the synonym of the given word.

PROBABLE

- A Tangible
- B Substitute
- C Likely
- D Similar

Answer: C

Question 78

From the given options, identify the segment in the sentence which contains the grammatical error.
Japan will be a country well known for its culture, technology and cuisines like sushi.

- A will be a country
- B well known for
- C cuisines like
- D its culture

Answer: A

Question 79

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

He work in a shop which makes handicraft goods.

- A works in a shop which make
- B works in a shop which makes
- C No improvement

D working in a shop which makes

Answer: B

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Question 80

From the given options, identify the segment in the sentence which contains the grammatical error.

The country also needs large doses of infrastructure additions – roads or highways, power plants, distribution networks, airports and ports.

A airports and ports

B also needs

C roads or highways

D The country

Answer: C

Question 81

Select the word which means the same as the group of words given.

One that has life

A Mortal

B Animate

C Inanimate

D Conscious

Answer: B

Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given.

Passage:

Bird-watching, as it is popularly called, is a peaceful(1) . It is not entirely without occasional physical thrills and even(2) The elephant ridden jungles in South India, for instance. I found myself in uncomfortably disturbing(3) . Actually, there is little danger from a wild elephant unless it happens to be a female with a small(4) along with her. What such situations demand is(5) and not valour.

Question 82

Select the most appropriate option that will fill in the blank number 1.

A job

B service

C activity

D work

Answer: C

Question 83

Select the most appropriate option that will fill in the blank number 2.

- A conditions
- B hazards
- C pleasures
- D circumstances

Answer: B

Question 84

Select the most appropriate option that will fill in the blank number 3.

- A zones
- B atmospheres
- C situations
- D locations

Answer: C

Question 85

Select the most appropriate option that will fill in the blank number 4.

- A cub
- B calf
- C pup
- D kitten

Answer: B

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Question 86

Select the most appropriate option that will fill in the blank number 5.

- A loyalty
- B honesty
- C forgetfulness
- D discretion

Answer: D

Instructions

For the following questions answer them individually

Question 87

Select the correctly spelt word.

- A Accessories
- B Accessories
- C Aecessories
- D Accesories

Answer: B

Question 88

Select the most appropriate word to fill in the blank.
Pollution of rivers and seas destroys life.

- A Aerial
- B Marine
- C Desert
- D Terrestrial

Answer: B

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Question 89

Select the most appropriate option to fill in the blank.
Their wages were very low, so the workers went on a

- A strike
- B leave
- C strife
- D conflict

Answer: A

Question 90

Select the most appropriate ANTONYM of the given word.
COARSE

- A Fine
- B Texture
- C Rough
- D Glossy

Answer: A

Question 91

Select the option that means the same as the given idiom.
Run of the mill

- A Ordinary
- B Rare
- C Exceptional
- D Uncommon

Answer: A

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Question 92

Select the most appropriate option to fill in the blank.
Ten million people watch this television every week.

- A incident
- B event
- C programme
- D media

Answer: C

Question 93

Select the synonym of the given word.
LETHARGY

- A Delight
- B Thrill
- C Wisdom
- D Fatigue

Answer: D

Question 94

Select the most appropriate word to fill in the blank.
People have used indigenous plants for of ailments since ancient times.

- A treatment
- B exclusion
- C adulteration
- D pollution

Answer: A

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Question 95

Select the option that means the same as the given idiom.

Man of letters

- A A student
- B A scholar
- C One who writes letters
- D One who can read letters

Answer: B

Question 96

Select the word which means the same as the group of words given.

Those that feed only on plants

- A Omnivorous
- B Predatory
- C Amphibian
- D Herbivorous

Answer: D

Question 97

Select the correctly spelt word.

- A Greivance
- B Grievanse
- C Grievence
- D Grievance

Answer: D

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Question 98

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select **No improvement**.

it's getting dark, can you switch the lights please?

- A No improvement
- B can you switch on the lights please?
- C can you switch of the lights please?
- D can you on the lights please?

Answer: B

Question 99

Select the antonym of the given word.

WHOLESALE

- A Discount
- B Retail
- C Concession
- D Rebate

Answer: B

Question 100

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select **No improvement**.

If he remains absent from the college, he will have to pay a fine.

- A If he is remain absent from
- B No improvement
- C If he is remaining absent from
- D If he will remains absent from

Answer: B

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