



SSC GD 15th Feb 2019 Shift-3

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Reasoning

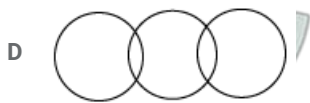
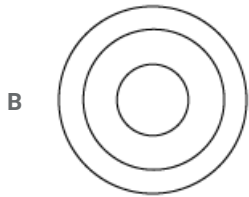
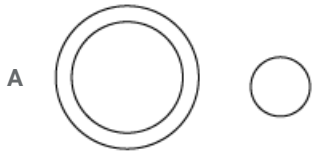
Instructions

For the following questions answer them individually

Question 1

Select the Venn diagram that best represents the given set of classes.

Stationery, Pen, Eraser



Answer: C

Explanation:

Pen and Eraser are both parts of stationary but are completely different from each other, hence the venn diagram that best describes above relationship is :



=> Ans - (C)

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Question 2

Select the option that will correctly replace the question mark (?) in the given pattern.



A 1

- B 216
- C 217
- D 36

Answer: C

Explanation:

Starting from 2 and going in anti clockwise direction, the pattern followed is $(n^3 + 1)$, where n is a natural number.

$$(1)^3 + 1 = 2$$

$$(2)^3 + 1 = 9$$

$$(3)^3 + 1 = 28$$

$$(4)^3 + 1 = 65$$

$$(5)^3 + 1 = 126$$

$$(6)^3 + 1 = 217$$

=> Ans - (C)

Question 3

Select the option that will correctly replace the question mark (?) in the series.

7, 19, 36, 63, ?

- A 125
- B 105
- C 115
- D 95

Answer: B

Explanation:

The pattern followed is that numbers with successive multiples of 5 between them are added.

$$7 + 12 = 19$$

$$19 + 17 = 36$$

$$36 + 27 = 63$$

$$63 + 42 = \mathbf{105}$$

=> Ans - (B)

Question 4

Select the option that will correctly replace the question mark (?) in the series.

107, 103, 87, 51, ?

- A -13
- B 15
- C 13
- D -15

Answer: A

Explanation:

Squares of even natural numbers are subtracted.

$$107 - (2)^2 = 103$$

$$103 - (4)^2 = 87$$

$$87 - (6)^2 = 51$$

$$51 - (8)^2 = -13$$

=> Ans - (A)

SSC GD Important Questions and Answers PDF

Question 5

In a certain code, COMPUTER is written as CEMOPRTU. How will CUPBOARD be written in that code?

A ABCDOPRU

B ABCDORPU

C ABCDOQRU

D ABDCOPRU

Answer: A

Explanation:

COMPUTER is written as CEMOPRTU

The pattern followed is that the letters are arranged in ascending order as they appear in the English alphabetical order.

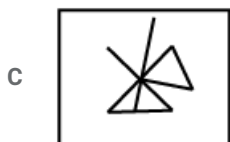
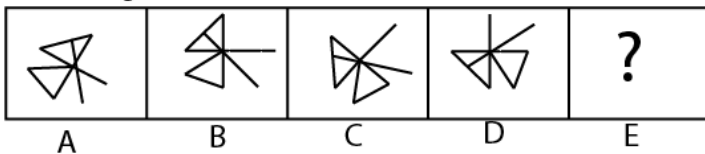
Similarly, CUPBOARD : **ABCDOPRU**

=> Ans - (A)

Question 6

Choose the option that would follow next in the given figure series.

Problem Fig.



D



Answer: C

Explanation:

The pattern followed is that the little gap between the two triangles in the first figure is pointing at top left and is moving in anti clockwise direction, i.e. in the second figure is pointing at left side, then bottom left and then at bottom, thus in the missing figure, it will face bottom right as shown in third figure.

=> Ans - (C)

Question 7

The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statements:

- 1) Some tables are sofas.
- 2) Some sofas are papers.

Conclusion

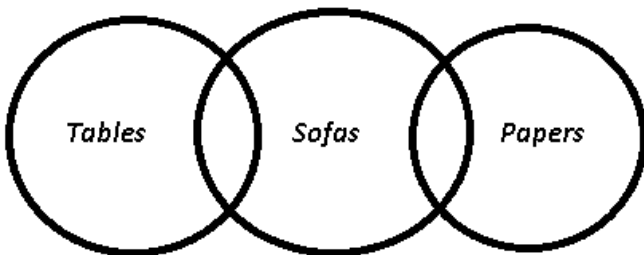
- I. Some sofas are tables.
- II. Some papers are sofas.

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

Answer: C

Explanation:

The venn diagram for above statements is :



Conclusion

- I. Some sofas are tables = true
- II. Some papers are sofas = true

Thus, both conclusions follow.

=> Ans - (C)

SSC GD Syllabus (Download PDF)

Question 8

Select the option that will correctly replace the question mark (?) in the series.

RGN, PIM, NKL, ?

- A LMK

- B LMJ
- C LVW
- D LWU

Answer: A

Explanation:

Expression : RGN, PIM, NKL, ?

The pattern followed in each term of the series is :

1st term : R (-2) = P (-2) = N (-2) = L

2nd term : G (+2) = I (+2) = K (+2) = M

3rd term : N (-1) = M (-1) = L (-1) = K

Thus, missing term is : **LMK**

=> Ans - (A)

Question 9

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

54 : 6 :: 42 : ?

- A 5
- B 6
- C 9
- D 7

Answer: D

Explanation:

Expression = 54 : 6 :: 42 : ?

The pattern followed is that sum of digits is divided by the first number to get the second number.

$$\text{Eg :- } \frac{54}{5+4} = 6$$

$$\text{Similarly, } \frac{42}{4+2} = 7$$

=> Ans - (D)

Question 10

In a certain code, JOY is written as 150. How will FEED be written in that code?

- A 80
- B 90
- C 50
- D 20

Answer: A

Explanation:

By numbering the alphabets chronologically, i.e. A=1, B=2, C=3 and so on.

The pattern followed is that the sum is multiplied by the number of letters in the word.

$$\text{Eg :- } \text{JOY} \equiv (10 + 15 + 25) \times 3 = 50 \times 3 = 150$$

Similarly, FEED $\equiv (6 + 5 + 5 + 4) \times 4 = 20 \times 4 = 80$

=> Ans - (A)

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Question 11

Eight friends A, B, C, D, E, F, G and H are sitting around a circular table facing each other for a lunch. A is opposite D and third to the right of B. G is between A and F. H is to the right of A. E is between C and D. Who is sitting opposite G?

A F

B C

C B

D E

Answer: D

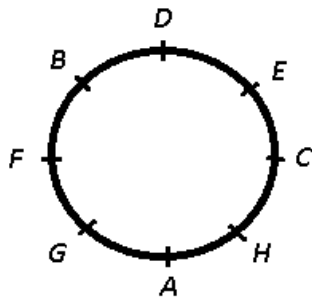
Explanation:

A is opposite D and third to the right of B. Also, E is between C and D.

=> B is to the immediate right of D.

G is between A and F, => G is to the immediate left of A.

H is to the immediate right of A.



Thus, E is sitting opposite G.

=> Ans - (D)

Question 12

The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statements:

1) All spiders are snails.

2) All molars are snails.

Conclusion

I. No spider is a molar.

II. Some spiders are molars.

A Only conclusion II follows.

B Only conclusion I follows.

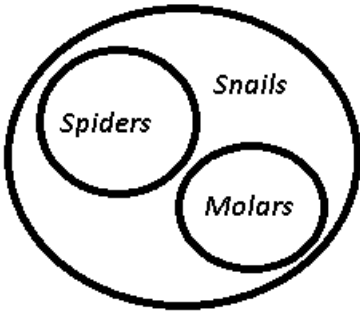
C Either conclusion I or conclusion II follows.

D Both conclusions follow.

Answer: C

Explanation:

The venn diagram for above statements is :



Conclusion

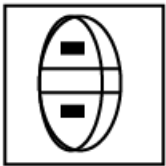
- I. No spider is a molar = may or may not be true
- II. Some spiders are molars = may or may not be true

Thus, either conclusion I or II follows.

=> Ans - (C)

Question 13

Choose the option that most closely resembles the mirror image of the given figure when the mirror is placed at the right side.



A



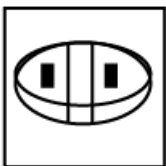
B



C



D



Answer: A

Explanation:

Image in third option is the exact replica of question figure, hence it is eliminated. Now, the vertical shape of circular will remain intact, hence second and fourth options are also not possible. Thus, first option is the correct mirror image.

=> Ans - (A)

SSC CPO Previous Question papers (download pdf)

Question 14

Choose the odd number out of the given options.

- A 17
- B 89
- C 63
- D 37

Answer: C

Explanation:

17, 89 and 37 are prime numbers, hence 63 is the odd one.

=> Ans - (C)

Question 15

Choose the odd one out of the given options.

- A Legs
- B Stomach
- C Heart
- D Kidneys

Answer: A

Explanation:

Apart from legs, all other body parts are internal organs (which cannot be seen), hence legs are the odd one.

=> Ans - (A)

Question 16

Seven friends O, P, Q, R, S, T and U are watching a movie sitting in a row. P is sitting at one extreme end. Q is sitting to the immediate left of S. P is sitting second to the right of T. U is not sitting at any extreme end. O is sitting between R and T. Who is sitting in the middle?

- A T
- B R
- C O
- D Q

Answer: C

Explanation:

P is sitting at one extreme end and second to the right of T, => P is at extreme right end.

O is sitting between R and T, => O is in the middle of the row and R to its immediate left.

Q is sitting to the immediate left of S, => Q is at extreme left end.

Q	S	R	O	T	U	P
---	---	---	---	---	---	---

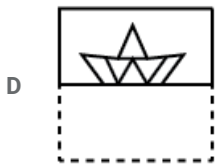
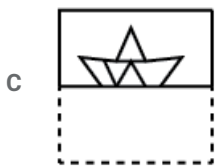
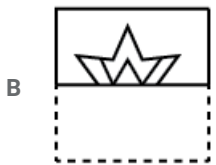
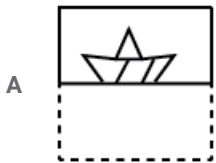
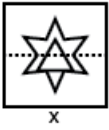
Thus, O is sitting in the middle.

=> Ans - (C)

SSC MTS Previous Question papers (download pdf)

Question 17

A square transparent sheet with a pattern is given. How will the pattern appear when the transparent sheet is folded along the dotted line?



Answer: D

Question 18

Choose the odd one out of the given options.

A CJK

B EHK

C FHJ

D KOJ

Answer: D

Explanation:

In the first three options, the letters are in increasing order, i.e. as they appear in the English alphabetical order, but in last option, O appears after both J and K, hence it is the odd one.

=> Ans - (D)

Question 19

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

Ichthyology : Fishes :: Palaeography : ?

- A Writings
- B Soil
- C Shells
- D Moon

Answer: A

Explanation:

Ichthyology is the branch of zoology that deals with fishes. Similarly, Palaeography is the study of ancient writing systems.

=> Ans - (A)

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Question 20

Find out the two signs to be interchanged to make the following equation correct.

$$27 + 27 \times 27 - 27 \div 27 = -701$$

- A \div and \times
- B $+$ and \div
- C $-$ and \div
- D \times and $-$

Answer: A

Explanation:

Expression : $27 + 27 \times 27 - 27 \div 27 = -701$

(A) : \div and \times

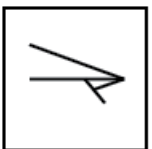
$$\text{L.H.S.} = 27 + 27 \div 27 - 27 \times 27$$

$$= 27 + 1 - 729 = -701 = \text{R.H.S.}$$

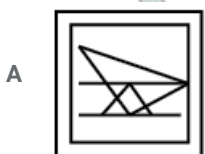
=> Ans - (A)

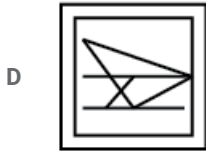
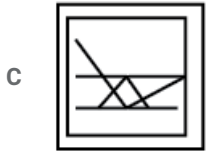
Question 21

Choose the option in which the figure marked 'x' is embedded. (Rotation is not allowed)



x





Answer: A

Explanation:

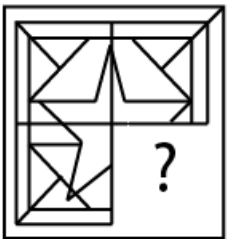
The question figure is embedded in following figure and is represented by red colour.



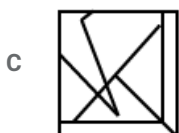
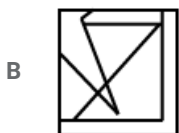
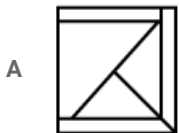
=> Ans - (A)

Question 22

Select a figure from amongst the four alternatives that when placed in the blank space (?) of figure X will complete the pattern. (Rotation is not allowed).



X



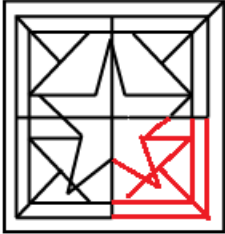
D



Answer: D

Explanation:

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



=> Ans - (D)

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 23

J, K, L, M, N and O are six teachers. Each one teaches a different subject out of Hindi, English, Math, Science, Social Science and Arts, not necessarily in the same order. Each of them teaches on only one day, from Monday to Saturday, not necessarily in the same order.

J teaches Science on Wednesday. O teaches Math second after J. K teaches on the first day of the week, but teaches neither Hindi nor English. M teaches English before N and L teaches Arts before J. Which subject is taught on Thursday?

- A Science
- B Arts
- C English
- D Social Science

Answer: C

Explanation:

J teaches Science on Wednesday. O teaches Math second after J, => O teaches on Friday.

L teaches Arts before J, => L teaches on Tuesday.

K teaches on the first day of the week, but teaches neither Hindi nor English, => K teaches Social Science

M teaches English before N, => N teaches Hindi.

Day	Teacher	Subject
Monday	K	Social Science
Tuesday	L	Arts
Wednesday	J	Science
Thursday	M	English
Friday	O	Maths
Saturday	N	Hindi

Thus, **English** is taught on Thursday.

=> Ans - (C)

Question 24

Select the option that is related to the third term in the same way as the second term is related to the first term.
BFH : EIK :: GKM : ?

- A JNP
- B KMG
- C MKG
- D IKM

Answer: A

Explanation:

Expression = BFH : EIK :: GKM : ?

The pattern followed is :

B	F	H
(+3)	(+3)	(+3)
E	I	K

Similarly for GKM :

G	K	M
(+3)	(+3)	(+3)
J	N	P

=> Ans - (A)

Question 25

Select the option that is related to the third term in the same way as the second term is related to the first term.
Innocent : Guilty :: Moisten : ?

- A Drench
- B Dried
- C Desire
- D Wet

Answer: B

Explanation:

Expression = Innocent : Guilty :: Moisten : ?

The first two words are opposite to each other, similarly antonym of moisten is **dried**.

=> Ans - (B)

SSC Stenographer Previous Papers (Download PDF)

General knowledge

Instructions

For the following questions answer them individually

Question 26

Who started the newspaper Mook Nayak in the year 1920?

- A Dadabhai Naoroji
- B Jyotiba Phule
- C B. R Ambedkar
- D Mahadeo Govind Ranade

Answer: C

SSC GD Constable Previous Papers

Question 27

What was the official mascot of the third Asian Para Games 2018?

- A Momo
- B Appu
- C Ezomon
- D Chim Yen

Answer: A

Question 28

Which part protects an unopened flower?

- A Sepal
- B Stamen
- C Petal
- D Anther

Answer: A

Question 29

Which schedule was added to the Indian Constitution in 1992 as a result of 73rd amendment?

- A 12th
- B 9th
- C 8th
- D 11th

Answer: D

SSC MTS Previous Papers (DOWNLOAD PDF)

Question 30

Which of the following is a Maharatna that is a central public sector enterprise?

- A Hindustan Petroleum Corporation Limited
- B ONGC Videsh Limited
- C NTPC Limited
- D PEC limited

Answer: C

Question 31

The 2009 Nobel Peace prize was awarded to for his extraordinary efforts to strengthen International Diplomacy.

- A Justin Trudeau
- B Kofi Annan
- C Barack Obama
- D Dalai Lama

Answer: C

Question 32

What is the party symbol of Communist Party of India (M)?

- A Elephant
- B Lotus flower
- C Broom
- D Hammer and Sickle

Answer: D

SSC GD Constable Previous Papers (DOWNLOAD PDF)

Question 33

Name the bacteria that causes dysentery.

- A Shigella
- B Vibrio Cholerae
- C Streptococcus pyogenes bacteria
- D Mycobacterium tuberculosis

Answer: A

Question 34

Which of the below is an alloy of mercury?

- A Brass
- B Nichrome

- C Stellite
- D Amalgam

Answer: D

Question 35

Who founded the Swaraj Party?

- A C.R. Das and Motilal Nehru
- B Bal Gangadhar Tilak and Lala Lajpat Rai
- C Mahatma Gandhi and B.R. Ambedkar
- D Jawaharlal Nehru and Motilal Nehru

Answer: A

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 36

When did the Indian Constituent assembly adopt the constitution?

- A 26 November 1949
- B 26 January 1950
- C 26 November 1950
- D 26 January 1949

Answer: A

Question 37

Liquefied petroleum gas consists of:

- A Hexane and benzene
- B Nitrogen and ethane
- C Propane and butane
- D Nonane and octane

Answer: C

Question 38

Who led the revolt of 1857 in the city of Kanpur?

- A Rani Lakshmi Bai
- B Nana Sahib
- C Begum Hazrat Mahal
- D Kunwar Singh

Answer: B

SSC CGL Free Mock Test (Latest Pattern)

Question 39

Which of the following is NOT the role of Food Corporation of India?

- A Ensuring that farmers are not forced to sell their produce below MSP
- B Making laws related to agricultural credit and indebtedness
- C Procurement of buffer stock
- D Setting up purchase centres to buy produce from the farmers

Answer: B

Question 40

Who is the winner of Man Booker Award 2018 for the book Milkman?

- A Anna Burns
- B Daisy Johnson
- C Richard Powers
- D Robin Robertson

Answer: A

Question 41

Which Chinese business tycoon(also the richest man of China) recently stepped down from Alibaba, the company he co-founded?

- A Jack Ma
- B Lei Jun
- C Daniel Zhang
- D Guo Guangchang

Answer: A

SSC CHSL Free Mock Test (Latest Pattern)

Question 42

Which major cities of the country are connected by the Golden quadrilateral super highways?

- A Delhi-Varanasi-Chennai-Pune-Delhi
- B Delhi-Dhanbad-Vishakapatnam-Surat-Delhi
- C Delhi-Kolkata-Chennai-Mumbai-Delhi
- D Delhi-Kolkata-Angola-Mumbai-Delhi

Answer: C

Question 43

The new year celebrated by Maharashtra Hindus is referred to by which name?

- A Ugadi
- B Puthando
- C Vishu
- D Gudi Padwa

Answer: D

Question 44

What does road density indicate?

- A The length of road per 100 sq. km of land area
- B The length of road per 1000 km of land area
- C The length of road per 1000 sq. km of land area
- D The length of road per 100 km of land area

Answer: A

SSC Stenographer Previous Papers (Latest Pattern)

Question 45

Out of the given options, which crop grows in black soil?

- A Cashewnut
- B Sugarcane
- C Tea
- D Cotton

Answer: D

Question 46

Pandavani is a folk singing style popular in the state of:

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

Answer: C

Question 47

The southern most Jyotirlinga temple is located in which Indian state?

- A Andhra Pradesh
- B Karnataka
- C Tamil Nadu
- D Kerala

Answer: C

SSC GD Constable Free Mock Test (Latest Pattern)

Question 48

Setting up of which of these is associated with White Revolution in India?

- A Mother Dairy
- B Paras
- C Saras
- D Amul

Answer: D

Question 49

..... is a chemical process or a reaction between fuel (hydrocarbon) and oxygen. producing heat and light energy resulting in a flame.

- A Convection
- B Carbonisation
- C Combustion
- D Conduction

Answer: C

Question 50

Who was awarded the 'FIFA Player of the Year 2018'?

- A Mohammed Salah
- B Cristiano Ronaldo
- C Luka Modric
- D Lionel Messi

Answer: C

SSC MTS Free Mock Test (Latest Pattern)

Quant

Instructions

For the following questions answer them individually

Question 51

The value of $(\frac{7}{8} \div \frac{1}{54} \times \frac{1}{75} - \frac{3}{20} \text{ of } \frac{2}{3}) \div \frac{1}{2} + (\frac{3}{5} \times \frac{1}{72} + \frac{2}{3} \div \frac{8}{15})$ is equal to $7 + k$, where $k =$

- A $\frac{3}{5}$
- B $\frac{1}{5}$
- C $\frac{1}{20}$
- D $\frac{19}{20}$

Answer: D

Explanation:

$$\text{Given : } (\frac{7}{8} \div \frac{1}{54} \times \frac{1}{75} - \frac{3}{20} \text{ of } \frac{2}{3}) \div \frac{1}{2} + (\frac{3}{5} \times \frac{1}{72} + \frac{2}{3} \div \frac{8}{15}) = 7 + k$$

$$\text{L.H.S.} = (\frac{7}{8} \div \frac{1}{54} \times \frac{1}{75} - \frac{3}{20} \text{ of } \frac{2}{3}) \div \frac{1}{2} + (\frac{3}{5} \times \frac{1}{72} + \frac{2}{3} \div \frac{8}{15})$$

$$= (\frac{7}{8} \div \frac{21}{4} \times \frac{36}{5} - \frac{1}{10}) \div \frac{1}{2} + (\frac{3}{5} \times \frac{15}{2} + \frac{2}{3} \div \frac{8}{15})$$

$$= (\frac{7}{8} \times \frac{4}{21} \times \frac{36}{5} - \frac{1}{10}) \div \frac{1}{2} + (\frac{3}{5} \times \frac{15}{2} + \frac{2}{3} \times \frac{15}{8})$$

$$= [(\frac{6}{5} - \frac{1}{10}) \times 2] + \frac{9}{2} + \frac{5}{4}$$

$$= \frac{11}{5} + \frac{9}{2} + \frac{5}{4}$$

$$= \frac{44+90+25}{20} = \frac{159}{20} = 7 + \frac{19}{20}$$

Comparing both sides, we get : $k = \frac{19}{20}$

=> Ans - (D)

SSC CPO Free Mock Test (Latest Pattern)

Question 52

A can complete $33\frac{1}{3}\%$ of a work in 5 days and B can complete 40% of the same work in 10 days. They work together for 5 days and then B left the work. A alone will complete the remaining work in:

- A $7\frac{1}{2}$ days
- B 5 days
- C 7 days
- D $5\frac{1}{2}$ days

Answer: C

Explanation:

Let total work to be done be 75 units

=> A complete $\frac{1}{3}$ rd of the work i.e. 25 units in 5 days, => A's efficiency = $\frac{25}{5} = 5$ units/day

Similarly, B complete $\frac{2}{5}$ th of the work i.e. 30 units in 10 days, => B's efficiency = $\frac{30}{10} = 3$ units/day

=> Work done by them together in 5 days = $(5 + 3) \times 5 = 40$ units

∴ Remaining work will be completed by A in = $\frac{(75-40)}{5} = 7$ days

=> Ans - (C)

Question 53

The value of $\frac{5.7 \div 1.9 \text{ of } 0.4}{1.5 \div [12.5 - (7.5 - 2.5)]} \div 1.5$ is:

- A 0.25
- B 0.5
- C 25
- D 5

Answer: C

Explanation:

$$\text{Expression} = \frac{5.7 \div 1.9 \text{ of } 0.4}{1.5 \div [12.5 - (7.5 - 2.5)]} \div 1.5$$

$$= \frac{[5.7 \div 0.76] \div 1.5}{1.5 \div [12.5 - 5]}$$

$$= \frac{(30 \div 4) \div 1.5}{1.5 \div 7.5}$$

$$= \frac{7.5}{1.5} \times \frac{7.5}{1.5}$$

$$= 5 \times 5 = 25$$

=> Ans - (C)

Question 54

If A is 75% more than B, C is 40% less than D and D is 20% more than A, then which one of the following is true?

- A $63C = 50B$
- B $25B = 21C$
- C $21B = 25C$
- D $50C = 63B$

Answer: D

Explanation:

$$\text{Let } B = 100$$

$$\Rightarrow A = 175$$

$$\text{Also, } D = 175x + \left(\frac{20}{100} \times 175x\right) = 210$$

$$\Rightarrow C = 210x - \left(\frac{40}{100} \times 210x\right) = 126$$

$$\text{Now, ratio of B and C} = \frac{B}{C} = \frac{100}{126}$$

$$\Rightarrow 50C = 63B$$

=> Ans - (D)

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Question 55

The average weight of all the students in a class was 45.5 kg. Later on 5 students weighing 44.6 kg 43.4 kg, 44 kg, 45.5 kg and 43.5 kg leave the class. As a result, the average weight of the remaining students increases by 500g. What was the number of students in the class, initially?

- A 18
- B 20
- C 16
- D 21

Answer: A

Explanation:

Let the number of students initially be x

=> Total weight of the class = $45.5x$ kg

Sum of weights of students who left = $(44.6 + 43.4 + 44 + 45.5 + 43.5) = 221$ kg

Thus, new average = $\frac{45.5x - 221}{x - 5} = 46$

=> $45.5x - 221 = 46x - 230$

=> $0.5x = 9$

=> $x = \frac{9}{0.5} = 18$

∴ There were **18** students initially.

=> Ans - (A)

Question 56

In finding the HCF of two numbers by division method, the last divisor is 174 and the quotient are 1, 7 and 2, respectively. If the sum of the two numbers is divided by the remainder is:

- A 2
- B 8
- C 1
- D 7

Answer: A

Question 57

A person sells an article at a certain price. What is his gain percent, if by selling it at 80% of that price, he loses 16%?

- A 4
- B 4.5
- C 5
- D 6

Answer: C

Explanation:

Let original cost price of article = Rs. $100x$ and original selling price = Rs. $100y$

=> New selling price = $\frac{80}{100} \times 100y = Rs. 80y$

Also, loss % = 16%, => New selling price = Rs. $84x$

Thus, from above equations, => $80y = 84x$

$$\Rightarrow \frac{y}{x} = \frac{21}{20}$$

Let $y = 21$ and $x = 20$

$$\therefore \text{Gain \%} = \frac{(21-20)}{20} \times 100 = 5\%$$

\Rightarrow Ans - (C)

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Question 58

Study the following table and answer questions:

Number of candidates appeared in an examination from five cities:

Cities	Number of candidate(in thousands)	Ratio of candidates passed and failed
A	75	3:02
B	124	16:15
C	108	7:05
D	81	5:04
E	148	17:20

The number of candidates appearing for the examination from city D is what percent of the total number of candidates failed in cities A and B?

A 72

B 87

C 80

D 90

Answer: D

Explanation:

$$\text{Total number of candidates failed in cities A and B (in thousands)} = \left(\frac{2}{5} \times 75\right) + \left(\frac{15}{31} \times 124\right)$$

$$= 30 + 60 = 90$$

Number of candidates appearing for the examination from city D = 81

$$\Rightarrow \text{Required \%} = \frac{81}{90} \times 100 = 90\%$$

\Rightarrow Ans - (D)

Question 59

A shopkeeper allows 20% discount on the marked price of an article and still makes a profit of 28%. If he sells it at 12.5% discount on the marked price, then his gain percent is:

A 20.5

B 24.6

C 36

D 40

Answer: D

Explanation:

Let marked price of article = Rs. $100x$

Selling price after 20% discount = Rs. $80x$

Also, cost price after 28% profit = $\frac{80x}{128} \times 100 = Rs. 62.5x$

Now, if he gives 12.5% discount, \Rightarrow New selling price = Rs. $87.5x$

\therefore New profit % = $\frac{87.5x - 62.5x}{62.5x} \times 100$

= $\frac{2500}{62.5} = 40\%$

\Rightarrow Ans - (D)

Question 60

A boat goes 2 km upstream and 3 km downstream in 45 minutes while it goes 3 km upstream and 9 km downstream in 90 minutes. What is the speed (in km/hr) of boat when going down stream?

A 9

B 10.5

C 12

D 9.5

Answer: C

Explanation:

Let speed of boat going downstream = x km/hr and going upstream = y km/hr

According to ques,

$$\Rightarrow \frac{2}{y} + \frac{3}{x} = \frac{3}{4} \text{-----(i)}$$

$$\text{Also, } \frac{3}{y} + \frac{9}{x} = \frac{3}{2} \text{-----(ii)}$$

Solving above equations, we get : $y = 4$ and $x = 12$

\therefore Speed (in km/hr) of boat when going down stream = 12

\Rightarrow Ans - (C)

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Question 61

What is the compound interest on a sum of ₹7500 for $2\frac{3}{4}$ years at 8% p.a., the interest being compounded yearly? (nearest to an integer)

A ₹1248

B ₹1773

C ₹1348

D ₹1783

Answer: B

Explanation:

Principal sum P = Rs. 7500

Rate of interest = $r = 8\%$ and time period = $t = 2\frac{3}{4}$ years

Amount when compounded annually (time in fraction) = $P \times (1 + \frac{r}{100})^t \times (1 + \frac{4r}{100})$ { \because time in mixed fraction is $\frac{3}{4}$ }

$$= 7500 \times (1 + \frac{8}{100})^2 \times (1 + \frac{3 \times 8}{400})$$

$$= 7500 \times (\frac{729}{625}) \times (\frac{53}{50})$$

$$= 12 \times 729 \times \frac{53}{50} = 9272.88$$

\therefore Compound interest = $9272.88 - 7500 = 1772.88 \approx Rs. 1773$

\Rightarrow Ans - (B)

Question 62

If x is the fourth proportional to 36, 48 and 15, and 4.2, y , 9 and 13.5 are in proportion, then the difference between y and x is:

- A 13.7
- B 16.4
- C 15.6
- D 14.8

Answer: A

Explanation:

x is the fourth proportional to 36, 48 and 15.

$$\Rightarrow \frac{36}{48} = \frac{15}{x}$$

$$\Rightarrow x = \frac{48 \times 15}{36} = 20$$

Also, $\frac{4.2}{y} = \frac{9}{13.5}$

$$\Rightarrow y = \frac{4.2 \times 13.5}{9} = 6.3$$

$$\therefore (x - y) = 20 - 6.3 = 13.7$$

\Rightarrow Ans - (A)

Question 63

The driver of a mini bus driving at 82 km/hr locates a motor bike 150 m ahead of him. After 20 seconds, the motor bike was 100 m behind the bus. The speed (in km/hr) of the motor bike is:

- A 39
- B 37
- C 35
- D 40

Answer: B

Explanation:

$$\text{Speed of bus} = 82 \text{ km/hr} = 82 \times \frac{5}{18} = \frac{205}{9} \text{ m/s}$$

Let speed of bike = x m/s

Now, difference between the distance covered by bike and bus in 20 seconds = $150 + 100 = 250$ m

$$\Rightarrow (\frac{205}{9} - x) \times 20 = 250$$

$$\Rightarrow x = \frac{205}{9} - \frac{25}{2} = \frac{410 - 225}{18} = \frac{185}{18}$$

$$\therefore \text{Speed of bike in km/hr} = \frac{185}{18} \times \frac{18}{5} = 37 \text{ km/hr}$$

=> Ans - (B)

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Question 64

9 men and 12 women can complete a work in 4 days, whereas 3 men and 6 women can complete it in 10 days. The number of days in which 15 women will complete the work is:

- A 9
- B 10
- C 12
- D 8

Answer: D

Explanation:

Let efficiency of 1 man and 1 woman to complete the work in 1 day be m and w respectively.

$$9m + 12w = \frac{1}{4} \text{ -----(i)}$$

$$\text{Similarly, } 3m + 6w = \frac{1}{10} \text{ -----(ii)}$$

Multiplying equation (ii) by 2 and then subtracting it from equation (i), we get :

$$\Rightarrow 9m - 6m = \frac{1}{4} - \frac{1}{5}$$

$$\Rightarrow m = \frac{1}{60}$$

$$\text{And } 6w = \frac{1}{10} - \frac{1}{20}$$

$$\Rightarrow w = \frac{1}{120}$$

$$\therefore \text{Number of days required by 15 women} = \frac{1}{15w} = \frac{120}{15} = 8 \text{ days}$$

=> Ans - (D)

Question 65

The average of 13 numbers is 65. The average of first three numbers is 63 and that of next numbers is 64.5. The 11^{th} number is 2 more than the 12^{th} number but less than the 13^{th} by 2.5. What is the average of 11^{th} and 12^{th} number?

- A 67.5
- B 67
- C 65.5
- D 65

Answer: B

Question 66

An alloy X contains by weight copper and tin in the ration 7 : 3 and alloy Y contain copper and tin in the ratio 3 : 2. X and Y are taken in the ratio 4 : 1 and melted to form alloy Z. The percentage of copper in alloy Z is:

- A 70

- B 56
- C 65
- D 68

Answer: D

Explanation:

Quantity of copper in 10 units of X = 7 units, similarly quantity of copper in 10 units of Y = 6

To form Z, we need X : Y = 4 : 1,

Thus, 40 units of X contains 28 units copper and 10 units of Y contains 6 units copper

Thus, in total of 50 units, copper is 34 units, required % = $\frac{34}{50} \times 100 = 68\%$

=> Ans - (D)

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Question 67

The radius of the base of a conical tent is 5 m and its height is 12 m. how many metres of canvas of width 5 metres will be required to make it?(use $\pi = \frac{22}{7}$)

- A $42\frac{3}{7}$
- B $40\frac{6}{7}$
- C $40\frac{3}{7}$
- D $42\frac{5}{7}$

Answer: B

Explanation:

Slant height of cone = $l = \sqrt{(12)^2 + (5)^2} = \sqrt{144 + 25}$

=> $l = \sqrt{169} = 13$ m

Let canvas required be x m

Curved surface area of cone = $\pi rl = 5 \times x$

=> $\frac{22}{7} \times 5 \times 13 = 5x$

=> $x = \frac{286}{7} = 40\frac{6}{7}$ m

=> Ans - (B)

Question 68

The area of a circular park is 37 times the area of a triangular field with sides 20 m, 20 m and 24 m. What is the perimeter (nearest to an integer) of the circular park?

- A 300
- B 150
- C 290
- D 350

Answer: A

Explanation:

The given triangular field is isosceles with two equal sides = 20 m and third side = 24 m

$$\Rightarrow \text{Height of triangle} = \sqrt{(20)^2 - (12)^2} = \sqrt{400 - 144}$$

$$= \sqrt{256} = 16 \text{ m}$$

Let radius of circular field = r m

$$\text{Thus, area of circular field} = \pi r^2 = 37 \times \frac{1}{2} \times 24 \times 16$$

$$\Rightarrow r^2 = \frac{7}{22} \times 37 \times 24 \times 8 = \frac{49728}{22}$$

$$\Rightarrow r = \sqrt{2260} \approx 47.5 \text{ m}$$

$$\therefore \text{Perimeter of circular park} = 2\pi r$$

$$= 2 \times 3.14 \times 47.5 \approx 300 \text{ m}$$

\Rightarrow Ans - (A)

Question 69

Study the following table and answer questions:

Number of candidates appeared in an examination from five cities:

Cities	Number of candidate(in thousands)	Ratio of candidates passed and failed
A	75	3:02
B	124	16:15
C	108	7:05
D	81	5:04
E	148	17:20

The number of cities, in which pass percentage of candidates is more than 55%, is:

A 3

B 2

C 4

D 1

Answer: A

Explanation:

Pass % of students in city :

$$A = \frac{3}{5} \times 100 = 60\%$$

$$B = \frac{16}{31} \times 100 = 51.6\%$$

$$C = \frac{7}{12} \times 100 = 58.3\%$$

$$D = \frac{5}{9} \times 100 = 55.5\%$$

$$E = \frac{17}{37} \times 100 = 45.9\%$$

Thus, in 3 cities, pass percentage of candidates is more than 55%.

\Rightarrow Ans - (A)

Question 70

The median of the observations 10, 11, 13, 17, $x + 2$, $x + 4$, 31, 33, 36, 42, arranged in ascending order 24. What is the mean of the data?

- A 25.2
- B 24.1
- C 25.4
- D 23.9

Answer: B

Explanation:

Observations in ascending order : 10, 11, 13, 17, $x + 2$, $x + 4$, 31, 33, 36, 42

Median of 10 observations is the mean of 5th and 6th observation = $\frac{(x+2)+(x+4)}{2} = 24$

$$\Rightarrow 2x = 48 - 6 = 42$$

$$\Rightarrow x = \frac{42}{2} = 21$$

$$\therefore \text{Mean of the data} = \frac{10+11+13+17+23+25+31+33+36+42}{10}$$

$$= \frac{241}{10} = 24.1$$

\Rightarrow Ans - (B)

Question 71

A certain sum amounts to ₹11760 in $2\frac{1}{2}$ years at 9% p.a. simple interest. What will be the simple interest on the same sum for $4\frac{2}{5}$ years at 15% p.a?

- A ₹6336
- B ₹6363
- C ₹6436
- D ₹6433

Answer: A

Explanation:

Let the sum of money be Rs. $100x$

Rate of interest = $r = 9\%$ and time period = $t = 2\frac{1}{2}$ years

$$\text{Amount under simple interest} = P + \frac{P \times R \times T}{100}$$

$$\Rightarrow 100x + \left(\frac{100x \times 9 \times 2.5}{100} \right) = 11760$$

$$\Rightarrow 100x + 22.5x = 122.5x = 11760$$

$$\Rightarrow x = \frac{11760}{122.5} = 96 \text{ -----(i)}$$

Thus, simple interest after $t' = 4\frac{2}{5}$ years and $r' = 15\%$

$$= \frac{100x \times 22 \times 15}{5 \times 100}$$

$$= 96 \times 66 = \text{Rs. } 6336$$

\Rightarrow Ans - (A)

Question 72

Water in a canal 3 m wide and 1.2 m deep, is flowing with the velocity of 10 km/h. How much area (in hectares) will it irrigate in half an hour, if 9 cm of standing water is needed?

- A 20
- B 18.8
- C 21
- D 20.4

Answer: A

Explanation:

Width of canal = 3 m and depth = 1.2 m and speed of water flow = 10 km/hr

=> 5000 m flows in half hour

Volume of water flow = $3 \times 1.2 \times 5000 = 18000 \text{ m}^3$

Standing water depth = 9 cm = 0.09 m

=> Irrigated area = $\frac{18000}{0.09} = 200000 \text{ m}^2$

∴ Area (in hectares) it will irrigate = $\frac{200000}{10000} = 20$ hectares

=> Ans - (A)

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Question 73

Study the following table and answer questions:

Number of candidates appeared in an examination from five cities:

Cities	Number of candidate(in thousands)	Ratio of candidates passed and failed
A	75	3:02
B	124	16:15
C	108	7:05
D	81	5:04
E	148	17:20

The ratio of the total number of candidates who passed from cities A and C to that who failed in cities B and E is:

- A 7 : 9
- B 53 : 66
- C 27 : 35
- D 4 : 7

Answer: C

Explanation:

Candidates who passed from city A = $\frac{3}{5} \times 75 = 45$

Candidates who passed from city C = $\frac{7}{12} \times 108 = 63$

∴ Total number of candidates who passed from cities A and C = $45 + 63 = 108$

Candidates who failed from city B = $\frac{15}{31} \times 124 = 60$

Candidates who failed from city E = $\frac{20}{37} \times 148 = 80$

∴ Total number of candidates who failed from cities B and E = $60 + 80 = 140$

⇒ Required ratio = $\frac{108}{140} = 27 : 35$

⇒ Ans - (C)

Question 74

Ritu sold an article at a loss of 12%. Had she sold it for ₹55.80 more, she would have gained 13%. To gain 10%, she must sell it for ₹:

A 274.80

B 280.46

C 245.52

D 271.60

Answer: C

Explanation:

Let cost price of article = Rs. $100x$

Selling price after 12% loss = $\frac{88}{100} \times 100x = Rs. 88x$

According to ques,

⇒ $88x + 55.80 = \frac{113}{100} \times 100x$

⇒ $113x - 88x = 55.80$

⇒ $x = \frac{55.80}{25} = 2.232$

∴ Cost price = $100 \times 2.232 = Rs. 223.2$

Thus, selling price after 10% profit = $\frac{110}{100} \times 223.2 = Rs. 245.52$

⇒ Ans - (C)

Question 75

A sum of 3392 is divided among A, B, C and D such that the ratio for shares of A and B is 2 : 5, that of B and C is 3 : 7 and that of C and D is 5 : 8. What is the share of C?

A ₹1060

B ₹1696

C ₹848

D ₹840

Answer: A

Explanation:

A : B = 2 : 5, B : C = 3 : 7, C : D = 5 : 8

Multiplying (1), (2) and (3) by 3, 5 and 7 respectively, we get :

⇒ A : B : C : D = 6 : 15 : 35 : 56

∴ Share of C = $\frac{35}{6+15+35+56} \times 3392$

$$= \frac{5}{16} \times 3392 = \text{Rs. } 1060$$

=> Ans - (A)

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English

Instructions

For the following questions answer them individually

Question 76

Select the most appropriate word to fill in the blank.
Fortunately, only a few were hurt in the train accident.

- A customers
- B passengers
- C clients
- D vendors

Answer: B

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Question 77

Select the option that means the same as the given idiom.
State-of-the-art

- A Very large
- B Scientific
- C Creatively made
- D Most advanced

Answer: D

Question 78

Select the word which means the same as the group of words given.
One who does not drink alcohol.

- A vegetarian
- B faithful
- C religious
- D teetotaler

Answer: D

Question 79

Select the antonym of the given word.
MAJOR

- A Significant
- B Leading
- C Powerless
- D Minor

Answer: D

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Question 80

Select the most appropriate option to fill in the blank.
I wish to travel the whole world, but I afford it.

- A shouldn't
- B wouldn't
- C can't
- D won't

Answer: C

Question 81

From the given options, identify the segment in the sentence which contains the grammatical error.
I know the most easiest way to solve this problem.

- A I know
- B most easiest
- C to solve
- D this problem

Answer: B

Question 82

Select the synonym of the given word.
RARELY

- A Usually
- B Often
- C Seldom
- D Frequently

Answer: C

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Question 83

Select the synonym of the given word.

ANNUAL

- A Timely
- B Routine
- C Yearly
- D Basic

Answer: C

Question 84

Select the correctly spelt word.

- A Eveluasion
- B Evaluation
- C Evaluasion
- D Evaluetion

Answer: B

Question 85

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**.

The Constitution of India was prepared after a thorough study of constitutions of various countries.

- A with a thorough
- B before a thorough
- C in a thorough
- D No improvement

Answer: D

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Question 86

Select the most appropriate option to fill in the blank.

..... you hurry up, you will belate.

- A Unless
- B Although
- C If
- D Since

Answer: A

Question 87

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**.

Much of the people in the train were asleep at the time of the accident.

- A Little of the people
- B No improvement
- C Most of the people
- D More of the people

Answer: C

Question 88

Select the most appropriate word to fill in the blank.

He is six feet

- A long
- B high
- C tall
- D short

Answer: C

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Question 89

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**.

The terrain of India is make of mountains, plateaus and plains.

- A No improvement
- B is made of
- C is making of
- D is makes of

Answer: B

Instructions

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

Passage:

The sky was always a deep sapphire blue. The snow washard and only by cutting steps in(1) we were able towalk. A false move would have been(2). Stopping at every step,(3) on our axes, wetried to(4) down our hearts, which were(5) as though they would burst.

Question 90

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

- A this

- B that
- C them
- D it

Answer: D

Question 91

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

- A danger
- B fatal
- C disaster
- D final

Answer: B

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Question 92

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

- A leans
- B leaned
- C leaning
- D lean

Answer: C

Question 93

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

- A compose
- B calm
- C pacify
- D soothe

Answer: B

Question 94

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

- A thumping
- B crushing
- C thrashing

D moving

Answer: A

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Instructions

For the following questions answer them individually

Question 95

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

One who cannot read or write.

A ignoble

B illegible

C illiterate

D ignorant

Answer: C

Question 96

Select the antonym of the given word.

URBAN

A Developed

B Rural

C Modern

D Backward

Answer: B

Question 97

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

He is a young man about twenty-five years but very learned.

A He is

B a young man

C but very learned.

D about twenty-five years

Answer: D

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Question 98

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

To keep one's fingers crossed

- A To wish for the best
- B To be very happy
- C To try very hard
- D To be frightened

Answer: A

Question 99

Select the correctly spelt word.

- A Clarence
- B Clearance
- C Clearence
- D Clearance

Answer: B

Question 100

**From the given options, identify the segment in the sentence which contains the grammatical error.
My sister tried to tempt me with sweets so that I ought not tell our parents about the vase she broke.**

- A with sweets
- B ought not tell
- C tried to tempt me
- D about the vase

Answer: B

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