



## SSC GD 15th Feb 2019 Shift-2

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## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

In a certain code, LOVE is written as OLEV. How will IRIS be written in that code?

- A IIRS
- B IRSI
- C RSII
- D RISI

Answer: D

### Explanation:

LOVE is written as OLEV

The first word is divided into two parts, and both the letters in both the parts are swapped.

Eg :- LOVE  $\equiv$  LO and VE, now letters in both parts are swapped = OL and EV  $\equiv$  OLEV

Similarly, IRIS : **RISI**

=> Ans - (D)

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### Question 2

In a certain code, AXE is written as 120. How will FEE be written in that code?

- A 150
- B 80
- C 60
- D 20

Answer: A

### Explanation:

If all the alphabets in the English alphabetical order are numbered sequentially, i.e. A=1, B=2, C=3 and so on.

Thus, AXE  $\equiv 1 \times 24 \times 5 = 120$

FEE  $\equiv 6 \times 5 \times 5 = 150$

=> Ans - (A)

### Question 3

Choose the odd one out of the given options.

- A BFJ
- B DGJ
- C EGI
- D CHI

Answer: D

Explanation:

(A) : B (+4) = F (+4) = J

(B) : D (+3) = G (+3) = J

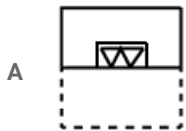
(C) : E (+2) = G (+2) = I

(D) : C (+5) = H (+1) = I

=> Ans - (D)

Question 4

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: A

## SSC GD Important Questions and Answers PDF

Question 5

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

A NZY

B LQT

C NUZ

D LQS

Answer: B

**Explanation:**

Expression = EFG : JLN :: GKM : ?

The pattern followed is :

|      |      |      |
|------|------|------|
| E    | F    | G    |
| (+5) | (+6) | (+7) |
| J    | L    | N    |

Similarly, for GKM :

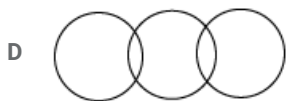
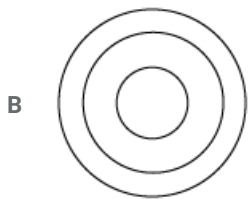
|      |      |      |
|------|------|------|
| G    | K    | M    |
| (+5) | (+6) | (+7) |
| L    | Q    | T    |

=> Ans - (B)

**Question 6**

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

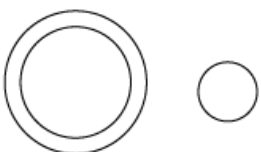
Furniture, Chairs, Trees



Answer: A

**Explanation:**

All the chairs are types of furniture, but trees are different, hence the venn diagram that best describe above relation is :



=> Ans - (A)

**Question 7**

Eight friends A, B, C, D, E, F, G and H are sitting around 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. is to the immediate right of A. E is between C and D. Who is sitting opposite C?

- A B
- B F
- C G
- D E

**Answer: B**

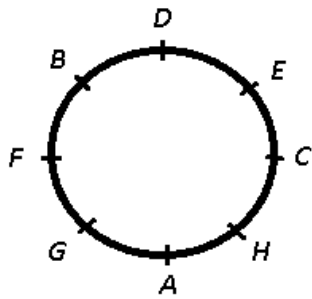
**Explanation:**

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, F is sitting opposite C.

=> Ans - (B)

## SSC GD Syllabus (Download PDF)

**Question 8**

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



- A 206
- B 216
- C 6
- D 36

**Answer: B**

**Explanation:**

Starting from 1, and going in anticlockwise direction, the pattern followed is :

$(1)^2 = 1$

$(2)^3 = 8$

$(3)^2 = 9$

$(4)^3 = 64$

$$(5)^2 = 25$$

$$(6)^3 = 216$$

=> Ans - (B)

### Question 9

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. Who teaches on Saturday?

A M

B N

C K

D L

Answer: B

### 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.

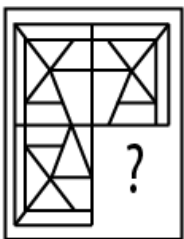
| Day       | Teacher | Subject        |
|-----------|---------|----------------|
| Monday    | K       | Social Science |
| Tuesday   | L       | Arts           |
| Wednesday | J       | Science        |
| Thursday  | M       | English        |
| Friday    | O       | Maths          |
| Saturday  |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

Thus, N teaches on Saturday.

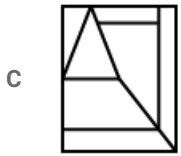
=> Ans - (B)

### Question 10

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).



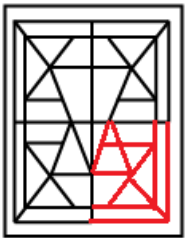
X



Answer: D

**Explanation:**

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



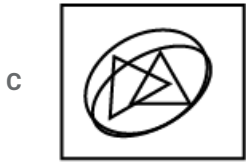
=> Ans - (D)

## 20 SSC GD Mocks 117 (Latest Pattern)

**Question 11**

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





Answer: D

**Explanation:**

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

=> Ans - (D)

**Question 12**

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 between P and T?

A Q

B R

C U

D O

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.

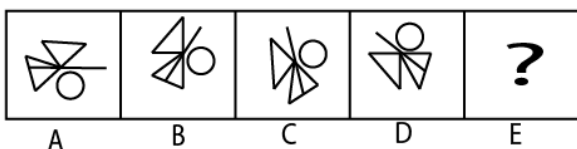
|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| Q | S | R | O | T | U | P |
|---|---|---|---|---|---|---|

Thus, U is sitting between P and T.

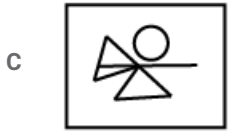
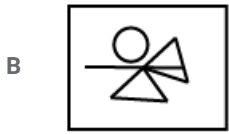
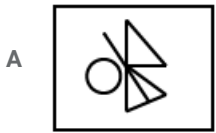
=> Ans - (C)

**Question 13**

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







Answer: B

**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 second figure.

=> Ans - (B)

## SSC CPO Previous Question papers (download pdf)

**Question 14**

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

Pathology : Diseases :: Astronomy : ?

A Future

B Soil

C Planets

D Shells

Answer: C

**Explanation:**

Pathology is the science of the causes and effects of diseases, similarly Astronomy is the branch of science which deals with celestial objects like **planets**.

=> Ans - (C)

**Question 15**

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

109, 105, 89, 53, ?

A 10

B 11

C -10

D -11

Answer: D

**Explanation:**

Squares of consecutive even natural numbers are subtracted.

$$109 - (2)^2 = 105$$

$$105 - (4)^2 = 89$$

$$89 - (6)^2 = 53$$

$$53 - (8)^2 = -11$$

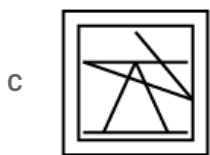
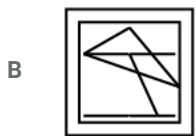
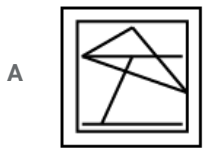
=> Ans - (D)

**Question 16**

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



X



Answer: D

**Explanation:**

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



=> Ans - (D)

## SSC MTS Previous Question papers (download pdf)

Question 17

Select the option that will correctly replace the question mark (?) in the series.  
TOD, RQB, PSZ, NUX,?

- A LWW
- B LWV
- C LVW
- D LWU

Answer: B

**Explanation:**

Series : TOD, RQB, PSZ, NUX,?

The pattern followed in each letter of the terms is :

1st letter :  $T (-2) = R (-2) = P (-2) = N (-2) = L$

2nd letter :  $O (+2) = Q (+2) = S (+2) = U (+2) = W$

3rd letter :  $D (-2) = B (-2) = Z (-2) = X (-2) = V$

Thus, missing term : **LWV**

=> Ans - (B)

Question 18

Choose the odd number out of the given options.

- A 45
- B 75
- C 85
- D 105

Answer: C

**Explanation:**

Apart from **85**, all numbers are divisible by 15, hence it is the odd one.

=> Ans - (C)

Question 19

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 nails are pins.
- 2) All hammers are pins.

Conclusion:

- I. No nail is a pin.
- II. Some pins are nails.

- A Neither conclusion I nor conclusion II follows.
- B Only conclusion II follows.

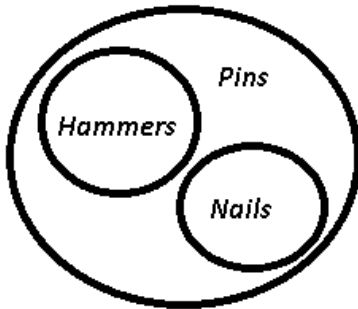
C Only conclusion I follows.

D Both conclusions follow:

Answer: B

Explanation:

The venn diagram for above statements is :



Conclusion:

I. No nail is a pin = false

II. Some pins are nails = true

Thus, only conclusion II follows.

=> Ans - (B)

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Question 20

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

9, 21, 38, 65, ?

A 125

B 115

C 105

D 107

Answer: D

Explanation:

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

$$9 + 12 = 21$$

$$21 + 17 = 38$$

$$38 + 27 = 65$$

$$65 + 42 = 107$$

=> Ans - (D)

Question 21

Choose the odd one out of the given options.

A Purple

B Yellow

C Red

D Blue

Answer: A

**Explanation:**

Except **purple**, all the colours appear in a rainbow, hence it is the odd one.

=> Ans - (A)

**Question 22**

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

24 : 4 :: 45 : ?

A 5

B 7

C 8

D 6

Answer: A

**Explanation:**

Expression = 24 : 4 :: 45 : ?

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

$$\text{Eg :- } \frac{24}{2+4} = 4$$

$$\text{Similarly, } \frac{45}{4+5} = 5$$

=> Ans - (A)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

**Question 23**

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

Famous : Obscure :: Crazy : ?

A Sane

B Clever

C Sink

D Foolish

Answer: A

**Explanation:**

Obscure means someone who is not discovered or not known, while a famous person is known everywhere, thus the relation between the two words are antonyms, similarly, opposite of crazy is **sane**.

=> Ans - (A)

**Question 24**

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

$$15 + 15 \times 15 - 15 \div 15 = 15$$

A - and  $\div$

B + and -

C × and ÷

D + and ×

**Answer: A**

**Explanation:**

$$\text{Expression} = 15 + 15 \times 15 - 15 \div 15 = 15$$

(A) : - and ÷

$$\begin{aligned} \text{L.H.S.} &\equiv 15 + 15 \times 15 \div 15 - 15 \\ &= 15 + 15 - 15 = 15 = \text{R.H.S.} \end{aligned}$$

=> Ans - (A)

#### Question 25

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 angers are griefs.
- 2) Some griefs are loves.

**Conclusion:**

- I. Some griefs are angers.
- II. Some loves are griefs.

A Both conclusions follow.

B Only conclusion II follows.

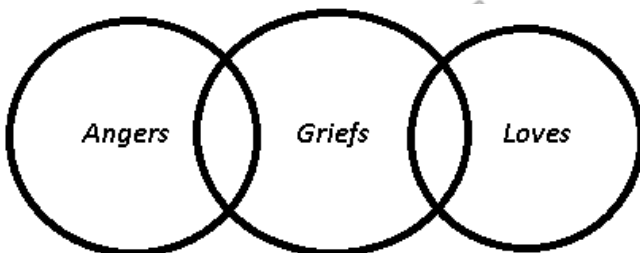
C Only conclusion I follows.

D Neither conclusion I nor conclusion II follows.

**Answer: A**

**Explanation:**

The venn diagram for above statements is :



**Conclusion:**

- I. Some griefs are angers = true
- II. Some loves are griefs = true

Thus, both conclusions follow.

=> Ans - (A)

**SSC Stenographer Previous Papers (Download PDF)**

**General knowledge**

**Instructions**

For the following questions answer them individually

**Question 26**

With which Mughal ruler is the Moti Masjid in Agra associated?

- A Aurangzeb
- B Akbar
- C Humayun
- D Shah Jahan

**Answer: D**

**SSC GD Constable Previous Papers**

**Question 27**

Which of the following statements is NOT correct about the factors that gave rise to the Consumer Movement in India?

- A Frequent food shortages
- B Hoarding and Black Marketing
- C Adulteration of food
- D Tax on soft beverages

**Answer: D**

**Question 28**

Which festival is celebrated to mark the birth anniversary of Prophet Muhammad?

- A Eid-ul-fitr
- B Shab-i-baraat
- C Id-ul-azha
- D Milad-un-nabi

**Answer: D**

**Question 29**

What are dolphins, porpoises and whales called?

- A Smack
- B Amphibian
- C Odontocetes
- D Cetaceans

**Answer: D**

**SSC MTS Previous Papers (DOWNLOAD PDF)**

**Question 30**

**Which food delivery service provider was recently acquired by Ola?**

- A Foodpanda
- B Uber eats
- C Zomato
- D Swiggy

**Answer: A**

**Question 31**

**What is the child sex ratio?**

- A Number of males per thousand females in the age group 0-15
- B Number of females per thousand males in the age group 0-6
- C Number of females per hundred males in the age group 0-6
- D Number of females per hundred males in the age group 0-15

**Answer: B**

**Question 32**

**Who won his first Stuttgart Open men's singles title in June 2018?**

- A Dominic Thiem
- B Nicolas Mahut
- C Roger Federer
- D Milos Raonic

**Answer: C**

**SSC GD Constable Previous Papers (DOWNLOAD PDF)**

**Question 33**

**When was Rowlatt Satyagraha launched and by whom?**

- A 1929, Mahatma Gandhi
- B 1915, Motilal Nehru
- C 1919, Mahatma Gandhi
- D 1930, C.R. Das

**Answer: C**

**Question 34**

**..... cropping refers to, growing two or more crops simultaneous on the same piece of land**



- A Simple
- B Complex
- C Mixed
- D Inter

**Answer: C**

**Question 35**

**Which of the following is the national aquatic animal of India?**

- A Whale
- B Turtle
- C Sea Horse
- D River Dolphin

**Answer: D**

## **SSC CGL Previous Papers (DOWNLOAD PDF)**

**Question 36**

**Which of the following is a subject of the state list?**

- A Banking
- B Defence
- C Police
- D Forests

**Answer: C**

**Question 37**

**Which British Viceroy in India carried out the partition of Bengal?**

- A Lord Canning
- B Lord Lytton
- C Lord Dalhousie
- D Lord Curzon

**Answer: D**

**Question 38**

**The National Sports Development Fund (NSDF) was established by the Central Government in the year .....**

- A 1997
- B 1998

C 1996

D 1999

Answer: B

## SSC CGL Free Mock Test (Latest Pattern)

### Question 39

Which startup was recently honoured by UN for its efforts in cleaning the Ganga river?

A Navdanya Trust

B Satpuda foundation

C HelpUsGreen

D World Wide Fund

Answer: C

### Question 40

'Double coincidence of wants' is a feature of which system?

A Forex system

B Barter system

C Equity system

D Liquidity system

Answer: B

### Question 41

Curd is formed with the help of ..... bacteria.

A Bifidobacterium bifidum

B Lactic acid

C Lactobacillus acidophilus

D Bacillus coagulans

Answer: C

## SSC CHSL Free Mock Test (Latest Pattern)

### Question 42

Which of these countries is an example of 'holding together federation'?

A New Zealand

B Australia

C USA

D India

Answer: D

**Question 43**

Kalaripayattu is the martial art form prevalent in which Indian state?

A Tamil Nadu

B Kerala

C Karnataka

D Odisha

Answer: B

**Question 44**

Which option represents the crops that are grown in June-July and are harvested in September-October?

A Rice, cotton

B Melon, barley

C Cucumber, watermelon

D Peas, wheat

Answer: A

## SSC Stenographer Previous Papers (Latest Pattern)

**Question 45**

Which Indian state is the largest bauxite producing state?

A Odisha

B Bihar

C Madhya Pradesh

D Jharkhand

Answer: A

**Question 46**

Which tennis player received the Padma Shri in sports in 2018?

A Yuki Bhambri

B Sania Mirza

C Leander Paes

D Somdev Devvarman

Answer: D

**Question 47**

**Who is the author of the book 'Exam Warriors'?**

- A Narendra Modi
- B Manmohan Singh
- C Sushma Swaraj
- D Arun Jaitley

**Answer: A**

## SSC GD Constable Free Mock Test (Latest Pattern)

**Question 48**

**Which declaration was signed at UNCED 1992 at Rio De Janeiro, Brazil?**

- A Agenda 39
- B Agenda 19
- C Agenda 22
- D Agenda 21

**Answer: D**

**Question 49**

**What is the range of pH scale?**

- A 0 to 14
- B 1 to 10
- C 1 to 7
- D 0 to 10

**Answer: A**

**Question 50**

**What was the capital of the Mauryan empire?**

- A Pataliputra
- B Vaishali
- C Indraprastha
- D Kusinagra

**Answer: A**

## SSC MTS Free Mock Test (Latest Pattern)

## Quant

### Instructions

For the following questions answer them individually

### Question 51

A shopkeeper sells an article at a certain price. What is his gain or loss percent, if by selling it at 75% of that price, he loses 10%?

- A Gain, 20%
- B Gain, 25%
- C Loss, 20%
- D Loss, 25%

Answer: A

### Explanation:

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

When sold at 75% of the price, new selling price = Rs.  $75y$

$$\Rightarrow \text{Loss}\% = \frac{100x - 75y}{100x} \times 100 = 10$$

$$\Rightarrow 100x - 75y = 10x$$

$$\Rightarrow 90x = 75y$$

$$\Rightarrow \frac{x}{y} = \frac{5}{6}$$

Let  $x = 5$  and  $y = 6$

$$\therefore \text{Profit}\% = \frac{600 - 500}{500} \times 100 = 20\%$$

$\Rightarrow$  Ans - (A)

## SSC CPO Free Mock Test (Latest Pattern)

### Question 52

A man can row downstream a distance of 9 km in 2 hours and takes 6 hours while returning to the starting point. What is the speed (in km/h) of the stream?

- A 2
- B 2.5
- C 1.5
- D 3

Answer: C

### Explanation:

Let speed of boat =  $x$  km/hr and speed of stream =  $y$  km/hr

Downstream speed =  $(x + y)$  km/hr and upstream speed =  $(x - y)$  km/hr

$$\text{According to ques, } \Rightarrow x + y = \frac{9}{2} = 4.5 \text{ -----(i)}$$

$$\text{and } x - y = \frac{9}{6} = 1.5 \text{ -----(ii)}$$

Subtracting equation (ii) from (i), we get :

$$\Rightarrow 2y = 3$$

$$\Rightarrow y = 1.5$$

$\therefore$  Speed of stream = 1.5 km/hr

$\Rightarrow$  Ans - (C)

#### Question 53

The average weight of a certain number of students in a group is 54 kg. If 12 students of average weight 52 kg join the group, then the average weight of all the students in the group decreases by 750 g. What was the number of students, initially in the group?

A 18

B 24

C 15

D 20

**Answer: D**

#### Explanation:

Let number of students initially =  $x$

$\Rightarrow$  Total initial weight =  $54x$  kg

Weight of new students =  $12 \times 52 = 624$  kg

$\Rightarrow$  New average =  $\frac{54x+624}{x+12} = 53.25$

$\Rightarrow 54x + 624 = 53.25x + 639$

$\Rightarrow 0.75x = 15$

$\Rightarrow x = 20$

$\therefore$  There were **20 students** initially.

$\Rightarrow$  Ans - (D)

#### Question 54

Surbhi can do a piece of work in 24 days. She completed  $\frac{3}{8}$  of the work and then left it. Amita complete the remaining work in 10 days. Working together, they will complete 125% of the same work in:

A 10 days

B 9 days

C 12 days

D 15 days

**Answer: C**

#### Explanation:

Let total work to be done be = 24 units

Surbhi complete 24 units in 24 days,  $\Rightarrow$  Surbhi's efficiency =  $\frac{24}{24} = 1$  unit/day

Work done by her =  $\frac{3}{8} \times 24 = 9$  units

Remaining work, i.e. 15 units is done by Amita in 10 days,  $\Rightarrow$  Amita's efficiency =  $\frac{15}{10} = 1.5$  units/day

$\therefore$  Time taken by them to complete 125% of work =  $\frac{30}{2.5} = 12$  days

$\Rightarrow$  Ans - (C)

## SSC GD Free Videos (Youtube)

### Question 55

Study the following table and answer question.

Number of students appeared in an examination from five cities:

| Cities | No. of Students (in thousands) | Ratio of students passed and failed |
|--------|--------------------------------|-------------------------------------|
| A      | 54                             | 5:04                                |
| B      | 126                            | 4:03                                |
| C      | 84                             | 10:11                               |
| D      | 96                             | 9:07                                |
| E      | 132                            | 6:05                                |

The ratio of the total number of students passed in the examination from cities A and D to that of students failed from cities B and E?

- A 9 : 16
- B 5 : 9
- C 13 : 18
- D 14 : 19

Answer: D

**Explanation:**

$$\begin{aligned} \text{Total number of students passed in the examination from cities A and D} &= \left(\frac{5}{9} \times 54\right) + \left(\frac{9}{16} \times 96\right) \\ &= 30 + 54 = 84 \end{aligned}$$

$$\begin{aligned} \text{Total number of students failed in the examination from cities B and E} &= \left(\frac{3}{7} \times 126\right) + \left(\frac{5}{11} \times 132\right) \\ &= 54 + 60 = 114 \end{aligned}$$

$$\Rightarrow \text{Required ratio} = \frac{84}{114} = 6 : 19$$

$\Rightarrow$  Ans - (D)

### Question 56

The ratio of ages of A and B, 4 years ago, was 5 : 7. The ratio of their ages after 4 years from now will be 7 : 9. What will be the ratio of ages of A and B after 12 years from now?

- A 8 : 13
- B 13 : 17
- C 9 : 11
- D 15 : 19

Answer: C

**Explanation:**

Let ages of A and B 4 years ago be  $5x$  and  $7x$  years respectively.

$$\Rightarrow \text{Ratio of ages 4 years from now (i.e. 8 years from then)} = \frac{5x+8}{7x+8} = \frac{7}{9}$$

$$\Rightarrow 45x + 72 = 49x + 56$$

$$\Rightarrow 4x = 16$$

$$\Rightarrow x = 4$$

$$\text{Ratio of ages 12 years from now} = \frac{5(4)+16}{7(4)+16} = \frac{36}{44}$$

$$= 9 : 11$$

$\Rightarrow$  Ans - (C)

#### Question 57

The surface area of a cuboidal box is  $240 \text{ cm}^2$  and the length of its diagonal is 11 cm. What is the sum (in cm) of its length, breadth and depth?

A 21

B 19

C 20

D 17

Answer: B

#### Explanation:

The diagonal,  $d$  of cuboid =  $\sqrt{l^2 + b^2 + h^2}$

$$\Rightarrow l^2 + b^2 + h^2 = 121 \text{ -----(i)}$$

$$\text{Also, Surface area} = 2(lb + bh + hl) = 240 \text{ -----(ii)}$$

$$\text{Now, sum of length, breadth and height} = (l + b + h)^2 = (l^2 + b^2 + h^2) + 2(lb + bh + hl)$$

Substituting values from equation (i) and (ii), we get :

$$\Rightarrow (l + b + h)^2 = 121 + 240 = 361$$

$$\Rightarrow (l + b + h) = \sqrt{361} = 19 \text{ cm}$$

$\Rightarrow$  Ans - (B)

SSC GD Free App

#### Question 58

The area of an equilateral triangle is  $6\sqrt{3}$  times the area of a rhombus whose one side measures 13 cm and one diagonal is 10 cm. The length of side of the triangle, in cm, is:

A  $36\sqrt{6}$

B  $24\sqrt{6}$

C  $24\sqrt{5}$

D  $12\sqrt{6}$

Answer: C

#### Explanation:

Since, diagonals of a rhombus bisect each other at right angles, we get a right angled triangle with side of rhombus as the hypotenuse and the two half diagonals as base and perpendicular, let other diagonal be  $2x$  cm

$$\Rightarrow x = \sqrt{(13)^2 - (5)^2} = \sqrt{169 - 25} = \sqrt{144} = 12 \text{ cm}$$

$$\Rightarrow \text{Other diagonal} = 24 \text{ cm}$$

$$\text{Thus, area of rhombus} = \frac{1}{2} \times 24 \times 10 = 120 \text{ cm}^2$$



=> Area of triangle with side  $s = \frac{\sqrt{3}}{4} s^2 = 6\sqrt{3} \times 120$

=>  $s^2 = 120 \times 24$

=>  $s = 24\sqrt{5} \text{ cm}^2$

=> Ans - (C)

#### Question 59

Let  $x$  be the least number which when divided by 12, 15, 18, 20 and 27, the remainder in each case is 2, but  $x$  is divisible by 23. If  $x$  is divided by the sum of its digits then the quotient is:

A 196

B 149

C 193

D 199

Answer: A

#### Explanation:

L.C.M. (12,15,18,20,27) = 540

Least number which when divided by 12, 15, 18, 20 and 27, the remainder in each case is 2 =  $x = 540n + 2$ , where  $n$  is any natural number.

Also,  $x$  is divisible by 23, thus by hit and trial, we get  $n = 4$  and  $x = 2162$

Now, when 2162 is divided by  $(2 + 1 + 6 + 2) = 11$ , quotient =  $2162 = 11 \times 196 + 6$

∴ Quotient = 196

=> Ans - (A)

#### Question 60

Two trains A and B, 186 m and 200 m long are running at 64 km/h and 80 km/h, respectively on parallel tracks. If they are running in the opposite directions, then how much time (in seconds) will a person sitting in the first train A take to cross the other train?

A 5.5

B 5

C 6

D 4.5

Answer: B

#### Explanation:

Since, they are running in opposite directions, relative speed =  $(64 + 80) = 144 \text{ km/hr}$

$= 144 \times \frac{5}{18} = 40 \text{ m/s}$

Thus, time take by person in train A =  $\frac{200}{40} = 5 \text{ seconds}$

=> Ans - (B)

## SSC GD Important Questions and Answers PDF

#### Question 61

The ratios of spirit and water in vessels A and B are 4 : 5 and 7 : 11, respectively. The contents of A and B are mixed in the ratio 2 : 5. What is the ratio of spirit and water in the resulting solution?

- A 22 : 75
- B 53 : 75
- C 17 : 25
- D 13 : 20

**Answer:** C

**Explanation:**

Let quantity of mixture in A be 36 litres and in B be 90 litres (now their ratio is 2:5)

=> Spirit in mixture A = 16 litres and water = 20 litres

Similarly, spirit in mixture B = 35 litres and water = 55 litres

2 parts of A and 5 parts of B are taken, => Total spirit : total water = (16 + 35) : (20 + 55)

= 51 : 75 = 17 : 25

=> Ans - (C)

**Question 62**

The average of 17 numbers is 29. The average of first 9 numbers is 31 and the average of the last 9 numbers is 27. If 9th number is excluded, then what is the average of the remaining numbers?

- A 31
- B 31.6
- C 29.5
- D 29

**Answer:** D

**Explanation:**

Sum of 17 numbers =  $17 \times 29 = 493$

Sum of first 9 numbers =  $9 \times 31 = 279$

Sum of last 9 numbers =  $9 \times 27 = 243$

=> 9th number =  $(243 + 279) - 493 = 29$

∴ If 9th number is excluded, average of the remaining numbers =  $\frac{493 - 29}{16} = 29$

=> Ans - (D)

**Question 63**

The value of  $\frac{0.2 \div 0.2 \text{ of } 0.1 - 0.03 \div 0.6 \text{ of } 0.01}{0.25 \times 0.75 \div 1.25 \text{ of } 0.4 + 0.125}$  lies between:

- A 10.5 and 11.5
- B 11.5 and 12.5
- C 9.5 and 10.5
- D 8.5 and 9.5

**Answer:** C

**Explanation:**

Expression :  $\frac{0.2 \div 0.2 \text{ of } 0.1 - 0.03 \div 0.6 \text{ of } 0.01}{0.25 \times 0.75 \div 1.25 \text{ of } 0.4 + 0.125}$

$$(0.2 \div 0.02) - (0.03 \div 0.006)$$

$$= (0.25 \times 0.75 \div 0.5) + 0.125$$

$$= \frac{10-5}{0.375+0.125} = \frac{5}{0.5} = 10$$

Thus, it lies between 9.5 and 10.5

=> Ans - (C)

## SSC GD Syllabus (Download PDF)

### Question 64

The difference between the mean and median of the data 66, 59, 68, 65, 62, 59, 58, 56, 63, 65 is:

A 0.4

B 1

C 0.8

D 0.5

Answer: A

#### Explanation:

Data in ascending order : 56, 58, 59, 59, 62, 63, 65, 65, 66, 68

$$\text{Median} = \frac{62+63}{2} = 62.5$$

$$\text{Mean} = \frac{56+58+59+59+62+63+65+65+66+68}{10} = 62.1$$

$$\Rightarrow \text{Difference} = 62.5 - 62.1 = 0.4$$

=> Ans - (A)

### Question 65

A certain sum amounts to ₹9243.20 in  $1\frac{1}{2}$  years at 4% p.a. simple interest. What will be the simple interest on the same sum for  $7\frac{1}{2}$  years at 8% per annum?

A ₹5580

B ₹5223

C ₹5232

D ₹5508

Answer: C

#### Explanation:

Let the sum be Rs.  $x$  at 4% simple interest and for  $t = 1\frac{3}{2}$  years

$$\text{Simple Interest} = \frac{P \times R \times T}{100}$$

$$\Rightarrow \frac{x \times 4 \times 3}{2 \times 100} + x = 9243.20$$

$$\Rightarrow \frac{3x}{50} + x = 9243.20$$

$$\Rightarrow x = 9243.20 \times \frac{50}{53} = \text{Rs. } 8720$$

∴ S.I. on same sum at 8% for  $t = 7\frac{1}{2}$  years

$$= \frac{8720 \times 8 \times 15}{2 \times 100}$$

$$= 87.2 \times 60 = \text{Rs. } 5232$$

=> Ans - (C)

**Question 66**

A sum of ₹12000 will amount to ₹x at 12% p.a after 2 years, when the interest is compounded 8-monthly. The value of x is (nearest to an integer)

- A 15111
- B 15083
- C 15117
- D 15053

Answer: C

**Explanation:**

Principal sum = Rs. 12,000

Rate of interest = 12% and time period = 2 years

Thus, amount (when compounded 8 monthly, i.e.  $\frac{12}{8} = 1.5$ ) =  $P(1 + \frac{12}{1.5 \times 100})^{1.5 \times 2}$

$$= 12,000 \times (1 + \frac{2}{25})^3$$

$$= 12,000 \times (\frac{27}{25})^3$$

$$= 0.768 \times (27)^3 = Rs. 15,116.54 \approx Rs. 15117$$

=> Ans - (C)

**20 SSC GD Mocks 117 (Latest Pattern)**

**Question 67**

The radius of a metallic sphere is 3 cm. it is melted and drawn into a wire of uniform circular section of 0.1 cm. the length of the wire will be (in m):

- A 44
- B 24
- C 36
- D 40

Answer: C

**Explanation:**

Radius of sphere =  $R = 3$  cm

Let length of wire be  $h$  cm and radius of wire =  $r = 0.1$  cm

Since, the sphere is melted to form a wire, so the volume of the sphere will be equal to the volume of the wire.

$$\Rightarrow \pi r^2 h = \frac{4}{3} \pi R^3$$

$$\Rightarrow 0.01 h = \frac{4}{3} \times 27$$

$$\Rightarrow h = 3600$$

∴ Length of wire (in m) = **36 m**

=> Ans - (C)

Question 68

Anu sells an article at a profit of 25%. If she had bought it at 25% less and sold it for ₹30.25 less she would have gained 30%. What is the original price (in ₹) of the article?

- A 108
- B 105.50
- C 105.80
- D 110

Answer: D

Explanation:

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

=> Selling price after 25% profit = Rs.  $125x$

If new cost price is 25% less, => New cost price = Rs.  $75x$

=> New selling price after 30% profit = Rs.  $\frac{130}{100} \times 75x = Rs. 97.5x$

Also, new selling price = Rs.  $(125x - 30.25)$

Thus, according to ques,

$$\Rightarrow 125x - 30.25 = 97.5x$$

$$\Rightarrow 125x - 97.5x = 27.5x = 30.25$$

$$\Rightarrow x = \frac{30.25}{27.5} = 1.1$$

$$\therefore \text{Original price} = 100 \times 1.1 = Rs. 110$$

=> Ans - (D)

Question 69

The ratio of the mean proportional between 0.7 and 2.8 and the third proportional to 2.5 and 3.5 is:

- A 7 : 2
- B 2 : 7
- C 7 : 3
- D 3 : 7

Answer: B

Explanation:

$$\text{Mean proportional between 0.7 and 2.8} = \sqrt{0.7 \times 2.8} = 1.4$$

Let third proportional to 2.5 and 3.5 be  $x$

$$\Rightarrow \frac{2.5}{3.5} = \frac{3.5}{x}$$

$$\Rightarrow x = \frac{3.5 \times 3.5}{2.5} = 4.9$$

$$\therefore \text{Required ratio} = \frac{1.4}{4.9} = 2 : 7$$

=> Ans - (B)

SSC CPO Previous Question papers (download pdf)

Question 70

Study the following table and answer question.

Number of students appeared in an examination from five cities:

| Cities | No.of Students (in thousands) | Ratio of students passed and failed |
|--------|-------------------------------|-------------------------------------|
| A      | 54                            | 5:04                                |
| B      | 126                           | 4:03                                |
| C      | 84                            | 10:11                               |
| D      | 96                            | 9:07                                |
| E      | 132                           | 6:05                                |

The total number of students who appeared in the examination from cities C and D is what percent more than the total number of students who failed in cities A, B and E? (nearest to an integer)

- A 44
- B 30
- C 41
- D 42

Answer: B

Explanation:

Total number of students who appeared in the examination from cities C and D (in thousands) =  $84 + 96 = 180$

Total number of students who failed in cities A, B and E (in thousands)

$$= \left(\frac{4}{9} \times 54\right) + \left(\frac{3}{7} \times 126\right) + \left(\frac{5}{11} \times 132\right)$$

$$= 24 + 54 + 60 = 140$$

$$\therefore \text{Required \%} = \frac{(180-140)}{140} \times 100$$

$$= \frac{40}{14} \approx 30\%$$

=> Ans - (B)

Question 71

The value of  $\left[ \frac{2}{3} \div \frac{8}{15} \text{ of } \frac{2}{5} + \frac{2}{5} \text{ of } \frac{1}{7} \div \frac{3}{4} \right] \text{ of } \frac{4}{19}$  is:

- A 1
- B  $\frac{1}{4}$
- C  $\frac{1}{2}$
- D  $\frac{1}{2}$

Answer: C

Explanation:

$$\text{Expression} = \left[ \frac{2}{3} \div \frac{8}{15} \text{ of } \frac{2}{5} + \frac{2}{5} \text{ of } \frac{1}{7} \div \frac{3}{4} \right] \text{ of } \frac{4}{19}$$

$$= \left[ \left( \frac{2}{3} \times \frac{75}{16} \right) + \left( \frac{2}{5} \times \frac{15}{2} \times \frac{4}{3} \right) \right] \times \frac{4}{19}$$

$$= \left( \frac{25}{8} + 4 \right) \times \frac{4}{19}$$

$$= \frac{57}{8} \times \frac{4}{19}$$

$$= \frac{3}{2} = 1\frac{1}{2}$$

=> Ans - (C)

#### Question 72

Study the following table and answer question.

Number of students appeared in an examination from five cities:

| Cities | No. of Students (in thousands) | Ratio of students passed and failed |
|--------|--------------------------------|-------------------------------------|
| A      | 54                             | 5:04                                |
| B      | 126                            | 4:03                                |
| C      | 84                             | 10:11                               |
| D      | 96                             | 9:07                                |
| E      | 132                            | 6:05                                |

The number of cities in which passing percentage of students is below 56% is:

A 1

B 3

C 2

D 4

Answer: B

#### Explanation:

Pass % of students in city :

$$A = \frac{5}{9} \times 100 = 55.55\%$$

$$B = \frac{4}{7} \times 100 = 57.14\%$$

$$C = \frac{10}{21} \times 100 = 47.61\%$$

$$D = \frac{9}{16} \times 100 = 56.25\%$$

$$E = \frac{6}{11} \times 100 = 54.54\%$$

Thus, there are **3 cities** in which passing percentage of students is below 56%.

=> Ans - (B)

## SSC MTS Previous Question papers (download pdf)

#### Question 73

Two pipes X and Y can fill an empty tank in 't' minutes. If pipe X alone takes 6 minutes more than 't' to fill the tank and Y alone takes 54 minutes more than 't' to fill the tank, then X and Y together will fill the tank in (in minutes):

A 18

B 12

C 27

D 24

Answer: A

**Explanation:**

Let volume of tank =  $x$  units

$$X\text{'s efficiency} = \frac{x}{t+6} \text{ units/min}$$

$$\text{Similarly, Y's efficiency} = \frac{x}{t+54} \text{ units/min}$$

$$\text{Time taken by both} = \left(\frac{x}{t+6} + \frac{x}{t+54}\right) \times t = x$$

$$\Rightarrow (2t + 60)t = (t + 6)(t + 54)$$

$$\Rightarrow 2t^2 + 60t = t^2 + 60t + 324$$

$$\Rightarrow t^2 = 324$$

$$\Rightarrow t = \sqrt{324} = 18$$

$\therefore$  Time taken by X and Y together = **18 minutes**

$\Rightarrow$  Ans - (A)

**Question 74**

The price of oil is increased by 20%. However, the expenditure on it increases by 15%. What is the percentage increase or decrease in the consumption of oil?

A  $6\frac{1}{4}\%$ , decrease

B  $4\frac{1}{6}\%$ , decrease

C  $4\frac{1}{6}\%$ , increase

D  $6\frac{1}{4}\%$ , increase

**Answer: B**

**Explanation:**

Let original price and consumption on oil be Rs. 10 each

$$\Rightarrow \text{Expenditure initially} = 10 \times 10 = \text{Rs. } 100$$

New price after 20% increase = Rs. 12 and new expenditure = Rs. 115

$$\Rightarrow \text{New consumption} = \frac{115}{12}$$

$$\therefore \text{Decrease in consumption} = \frac{10 - \frac{115}{12}}{10} \times 100$$

$$= \frac{5}{12} \times 10 = 4\frac{1}{6}\%$$

$\Rightarrow$  Ans - (B)

**Question 75**

A person makes a profit of 17% after allowing 10% discount on its marked price. If he gives 14% discount on the marked price, then his profit percent is:

A 11.8

B 14.6

C 10.6

D 23.8

**Answer: A**

**Explanation:**

Let marked price = Rs.  $100x$



=> Selling price after 10% discount = Rs.  $90x$

Profit % = 17%, => Cost price =  $\frac{90x}{117} \times 100 = Rs. \frac{1000x}{13}$

Now, if discount = 14%, => Selling price = Rs.  $86x$

$\therefore$  Profit % =  $\frac{86x - \frac{1000x}{13}}{\frac{1000x}{13}} \times 100$

=  $\frac{118}{10} = 11.8\%$

=> Ans - (A)

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### English

#### Instructions

For the following questions answer them individually

#### Question 76

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.

They thought she was arrogant, and she was very shy.

- A as soon as she was
- B so that she was
- C No improvement
- D whereas she was

Answer: D

## SSC CHSL Previous Papers (DOWNLOAD PDF)

#### Question 77

From the given options, identify the segment in the sentence which contains the grammatical error.  
He not only got a scholarship and also a good job.

- A and also
- B a good job.
- C not only
- D got a scholarship

Answer: A

#### Question 78

Select the most appropriate option to fill in the blank.  
She did not reply ..... myLetter.

- A against
- B for
- C with

D to

Answer: D

Question 79

Select the correctly spelt word.

A Fulfil

B Fullfill

C Fulfil

D Foolfil

Answer: C

## SSC Stenographer Previous Papers (Download PDF)

Question 80

Select the word which means the same as the group of words given.  
The practice of marrying one person at a time.

A Monogamy

B Monotony

C Polygamy

D Bigamy

Answer: A

Question 81

Select the antonym of the given word.  
Attack

A Defence

B Secure

C Assent

D Refuse

Answer: A

Question 82

Select the correctly spelt word.

A Remembrance

B Remembranse

C Remembarence

D Rememberance

Answer: A

## SSC GD Constable Previous Papers

### Instructions

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

Passage:

Flood is a common natural disaster. Scientists have often tried to .....(1) floods. There are a number of reasons that .....(2) floods, including heavy rain and cloudbursts. Due to these reasons, rivers .....(3) their banks and cover the surrounding land. Sometimes, dams break and cause disastrous floods that .....(4) to large-scale destruction. Timely safety .....(5) should be taken to save human life and property.

### Question 83

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

- A control
- B predict
- C prevent
- D avoid

Answer: B

### Question 84

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

- A occur
- B arouse
- C happen
- D cause

Answer: D

### Question 85

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

- A wash
- B drown
- C overflow
- D reach

Answer: C

## SSC MTS Previous Papers (DOWNLOAD PDF)

### Question 86

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

- A lead
- B led
- C leading
- D leads

**Answer: A**

**Question 87**

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

- A measures
- B products
- C items
- D causes

**Answer: A**

**Instructions**

For the following questions answer them individually

**Question 88**

Select the synonym of the given word.

**IDENTICAL**

- A Perfect
- B Same
- C Corresponding
- D Varied

**Answer: B**

**SSC GD Constable Previous Papers (DOWNLOAD PDF)**

**Question 89**

Select the synonym of the given word.

**GLEE**

- A Happiness
- B Hearty
- C Laughter
- D Jump

**Answer: A**

**Question 90**

Select the word which means the same as the group of words given.  
That which can be seen through

- A Vague
- B Opaque
- C Foggy
- D Transparent

Answer: D

**Question 91**

From the given options, identify the segment in the sentence which contains the grammatical error.  
The T.V. and the computer has been blamed for reduced reading habits amongst children.

- A The T.V. and the computer
- B has been blamed
- C for reduced
- D amongst children.

Answer: B

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 92**

From the given options, identify the segment in the sentence which contains the grammatical error.  
I am fastly excited and really looking forward to the trip.

- A to the trip
- B and really
- C looking forward
- D I am fastly

Answer: D

**Question 93**

Select the most appropriate word to fill in the blank.  
He likes to do stunts with his bike. He is a .....

- A daredevil
- B busybody
- C wind bag
- D little bug

Answer: A

**Question 94**

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.

There were not any excuse for not participating in the competition.

- A No improvement
- B no excuse
- C no excuses
- D no any excuse

**Answer: C**

## SSC CGL Free Mock Test (Latest Pattern)

### Question 95

Select the antonym of the given word.

**ABOVE**

- A Below
- B Less
- C Down
- D Across

**Answer: A**

### Question 96

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

**To measure swords**

- A To push an opponent
- B To argue with someone
- C To confess one's mistake
- D To engage in competition

**Answer: D**

### Question 97

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

**Out of order**

- A Out of place
- B In good condition
- C Not in working condition
- D Out of nowhere

**Answer: C**

## SSC CHSL Free Mock Test (Latest Pattern)

**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.

You need to curb your temper or you might offended someone.

- A you might be offend
- B you might offend
- C No improvement
- D you might offending

**Answer: B**

**Question 99**

Select the most appropriate option to fill in the blank.

I told him to avoid fighting, but he won't .....

- A doing it
- B did it
- C do it
- D does it

**Answer: C**

**Question 100**

Select the most appropriate word to fill in the blank.

My mother is ..... riser.

- A a fast
- B an early
- C a quick
- D an easy

**Answer: B**

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