



## SSC GD 18th Feb 2019 Shift-3

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# Reasoning

## Instructions

For the following questions answer them individually

### Question 1

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

CGEI : XTVR :: FJHL : ?

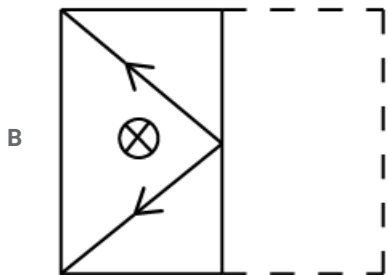
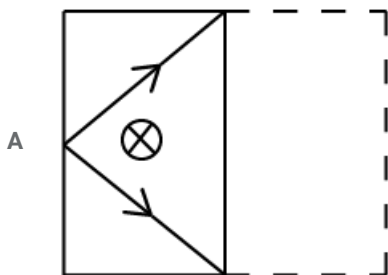
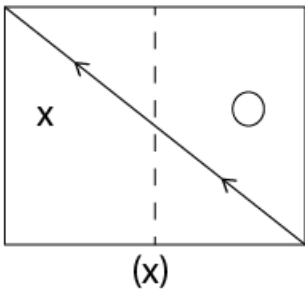
- A UOQS
- B UQSO
- C TNRP
- D OUQS

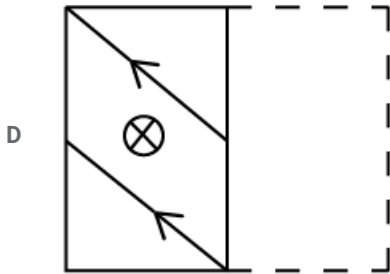
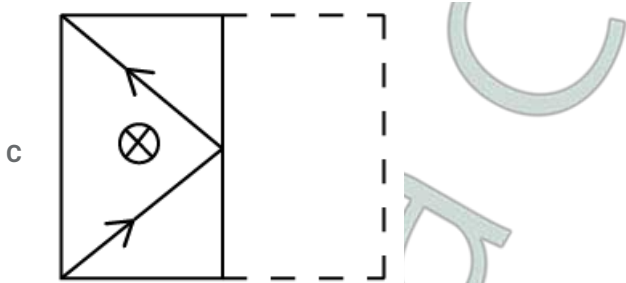
Answer: B

SSC GD Free App

### Question 2

How would the pattern given on the square transparent sheet marked 'X' look when the sheet is folded along the dotted line?





Answer: C

**Question 3**

Select the correct option that will fill in the blank and complete the series.

1, 3, 8, 19, 42, .....

- A 89
- B 93
- C 85
- D 77

Answer: A

**Explanation:**

The Correct Logic in above number series is.

1, 3, 8, 19, 42, .....

$$1 * 2 + 1 = 3$$

$$3 * 2 + 2 = 8$$

$$8 * 2 + 3 = 19$$

$$19 * 2 + 4 = 42$$

$$42 * 2 + 5 = 89$$

**Question 4**

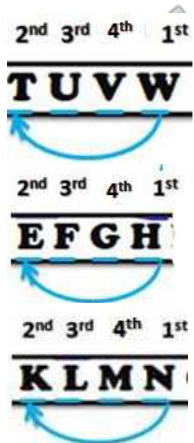
Which one of the following four-letter clusters does NOT belong to the group?

- A SOPQ
- B WTUV
- C HEFG
- D NKLM

Answer: A

**Explanation:**

All three follow same pattern WTUV, HEFG, NKLM



But SOPQ does not follow same pattern.



Hence Correct Answer is **Option A - SOPQ** is odd one.

## SSC GD Important Questions and Answers PDF

### Question 5

If in a code language, MACE = 5 and MASTER = 7, then SOLUTION = ?

- A 9
- B 11
- C 8
- D 10

Answer: A

#### Explanation:

MACE = 5 (No. of Alphabet in word 4 + 1) = 5

MASTER = 7 (No. of Alphabet in word 6 + 1) = 7

Similarly, SOLUTION = 9 (No. of Alphabet in word 8 + 1) = 9

Answer is 9.

### Question 6

Pinky is taller than Priya but shorter than Reena. Riya is taller than Sheela, who is shorter than Priya. Reena is taller than Riya, who is taller than Pinky. Who is the shortest?

- A Priya
- B Sheela
- C Riya
- D Pinky

Answer: B

#### Explanation:

1) Pinky is taller than Priya but shorter than Reena.

**Pinky > Riya**

2) Riya is taller than Sheela,

**Riya > Sheela**

3) (Sheela)who is shorter than Priya.

**Priya > Sheela**

4) Reena is taller than Riya,

**Reena > Riya**

5) (Riya)who is taller than Pinky.

**Riya > Pinky**

After consolidating all the sentence the Final Sequence of from Tallest to Shortest is **Reena > Riya > Pinky > Priya > Sheela**

Hence Sheela is Shortest.

### Question 7

Six friends A, B, C, D, E and F are sitting around a round table facing the center. C is seated between A and B, who is to the immediate left of D. If C is facing E, who is facing F?

A E

B A

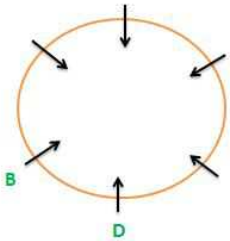
C D

D B

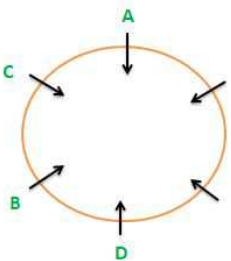
**Answer: D**

### Explanation:

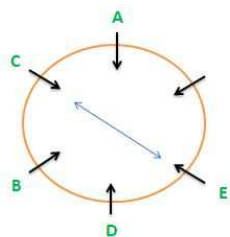
1) B(who) is to the immediate left of D.



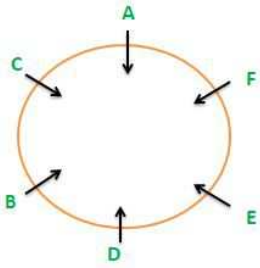
2) C is seated between A and B



3) C is facing E.



4) Lets place F in Empty Space.

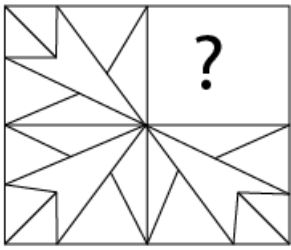


Hence in B is facing F.

## SSC GD Syllabus (Download PDF)

### Question 8

Select the figure which when placed in the blank space of the figure marked 'X' would complete the pattern.



(X)

A



B



C



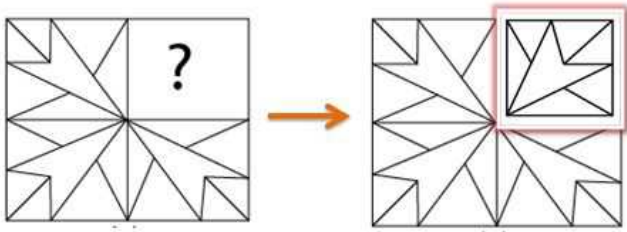
D



Answer: C

**Explanation:**

Correct Option is C.



**Question 9**

Which two signs should be interchanged to make the following equation correct?

$$12 + 18 \times 24 \div 6 - 3 = 19$$

A  $\times$  and  $\div$

B  $\div$  and  $+$

C  $+$  and  $\times$

D  $-$  and  $\div$

**Answer: B**

**Explanation:**

Original Statement  $12 + 18 \times 24 \div 6 - 3 = 19$

Let's interchange symbols  $\div$  and  $+$

$$12 \div 18 \times 24 + 6 - 3 = 19$$

$$4 \div 6 \times 24 + 6 - 3 = 19$$

$$4 \times 4 + 6 - 3 = 19$$

$$4 \times 4 + 3 = 19$$

$$16 + 3 = 19$$

$$19 = 19$$

Hence Option B is correct Answer.

**Question 10**

Select the correct option that will fill in the blank and complete the series.

pmtz, rkvx, tixv, vgzt, .....

A xebr

B zdcw

C xeyv

D yerb

**Answer: A**

**Explanation:**

First digit of all number sequence is P+1,R+1,T+1,V+1 = X

Second digit of all number sequence is M-1,K-1,I-1,G-1 = E

Third digit of all number sequence is T+1,V+1,X+1,Z+1 = B

Fourth digit of all number sequence is Z-1,X-1,V-1,T-1 = R

Hence last Sequence will have XEBR.

## 20 SSC GD Mocks 117 (Latest Pattern)

### Question 11

The statement below is followed by three conclusions labeled I, II and III. You have to assume everything in the statement to be true, and then decide which of the three suggested conclusions logically follows for pursuing.

Statements:

- 1.) No school is an institution.
- 2.) All establishments that are not institutions have buildings.

Conclusions:

- I. Schools are not establishments.
- II. All schools have buildings.
- III. Schools do not have buildings.

- A Only conclusion III follows
- B Either conclusion I or II follow
- C Only conclusion I follows
- D Only conclusion II follows

Answer: D

### Question 12

P, Q, R, S, T and U are standing in a queue. Q is just ahead of P. S is just behind T. U is NOT near R, who is separated from Q by two persons. Who is standing at the front of the queue?

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

Answer: B

Explanation:

1) Q is just ahead of P.

Q

P

2) R(who) is separated from Q by two persons.

R

-

-

Q

P

3) U is NOT near R - We will draw U at end of sequence away from R.



- R
- 
- 
- Q
- P
- U

4) S is just behind T - This can fit in between two empty gaps.

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

Hence, R is standing at the front of the queue

**Question 13**

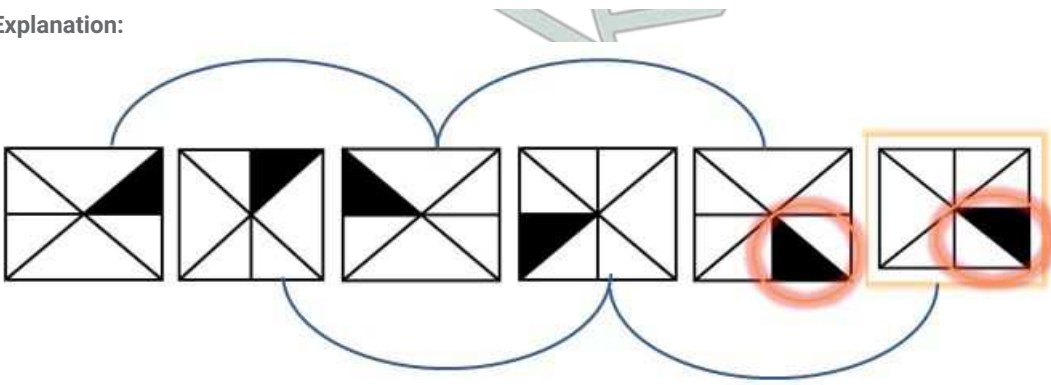
Choose the figure from the options that would follow next in the given series.



- A
- B
- C
- D

Answer: C

Explanation:



First Square shape is similar to third Square and Third is similar to 5th Image respectively, But the filling of shaded image, The Red circle shows that 5th shaded filling is opposite to 6th Image shaded portion. Hence Option C is Correct Option.

## SSC CPO Previous Question papers (download pdf)

### Question 14

Four numbers have been given out of which three are alike in some manner, while one is different. Choose the odd one.

- A 33
- B 73
- C 53
- D 23

Answer: A

### Explanation:

73, 53, 23 are Prime Numbers.

But 33 is not a prime number hence it is odd one.

### Question 15

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

Heart : Veins :: River : ?

- A Water
- B Current
- C Ocean
- D Tributaries

Answer: D

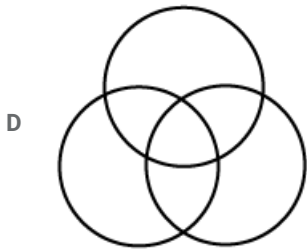
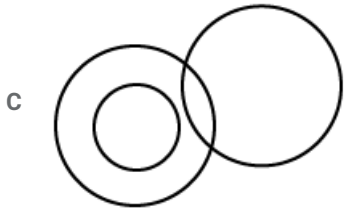
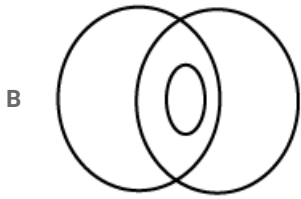
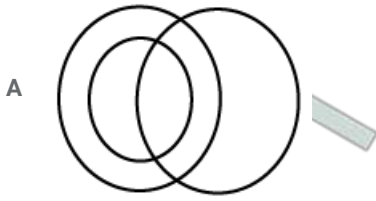
### Explanation:

Heart contains Veins.

Similarly, River contains Tributaries.

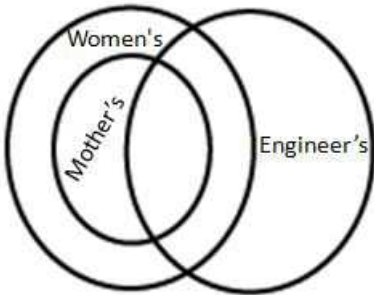
### Question 16

Which of the following Venn diagrams correctly represents the relationships among the classes: Women, Mothers, Engineers



Answer: A

Explanation:



Women's includes mother's and also some women's as engineers. Hence Option A is suitable diagram.

## SSC MTS Previous Question papers (download pdf)

Question 17

Pick the odd one out.

A Rome

B Paris

C London

D Spain

Answer: D

**Explanation:**

Rome is capital of Italy,

Paris is capital of France,

London is capital of United Kingdom,

But Spain is a country name of European it is not and capital. Hence Option D is correct Option.

**Question 18**

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 to be 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 cups are mugs.

2.) All mugs are utensils.

**Conclusions:**

I. All cups are utensils.

II. Some utensils are cups.

A Only conclusion I follows

B Neither conclusion I nor II follows

C Both conclusions I and II follow

D Only conclusion II follows

**Answer: C**

**Explanation:**



**Conclusions:**

I. All cups are utensils- True

II. Some utensils are cups- True.

Both Conclusion I and II follows.

**Question 19**

**TIME** is related to **CLOCK** in the same way as **DISTANCE** is related to:

A KILOMETRE

B ODOMETER

C DESTINATION

D SPACE

**Answer: B**

**Explanation:**

Clock is use to display Time.

Similarly, **Odometer** is use to measure **Distance**.

Hence Option B is correct Option.

## Free SSC Study Material (18,000 Solved Questions)

### Question 20

If in a code language, MOTHER is coded as OMHTRE, then THURSDAY would be coded as:

- A HTRUDSYA
- B HTRUSDYA
- C HTRUSDAY
- D UHTDSRYA

**Answer:** A

### Explanation:

MOTHER is coded as OMHTRE (First alphabet is exchanged with second, Third is exchanged with fourth, fifth is exchanged with sixth)

THURSDAY will be coded as 'HTRUDSYA'

### Question 21

Pick the odd pair out.

- A 5-31
- B 3-23
- C 12-86
- D 8-58

**Answer:** A

### Question 22

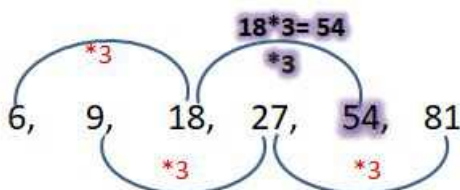
Select the correct option that will fill in the blank and complete the series.

6, 9, 18, 27, ..., 81

- A 62
- B 36
- C 48
- D 54

**Answer:** D

### Explanation:



Hence  $18 \times 3 = 54$ . Option D

Question 23

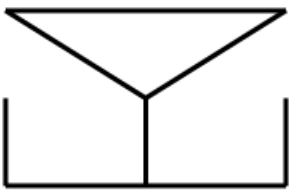
The numbers in the following set are related in a certain way. Choose the set that is similar to the following set: {4, 6, 9}

- A {6, 8, 12}
- B {9, 15, 18}
- C {6, 12, 24}
- D {12, 14, 18}

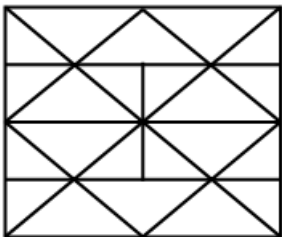
Answer: C

Question 24

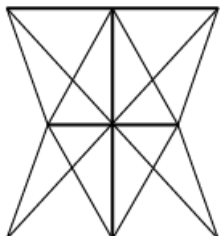
Choose the figure from the options in which the given figure is embedded.



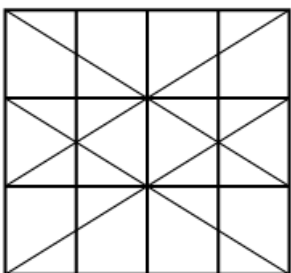
A



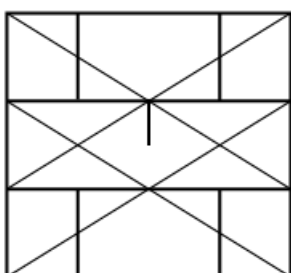
B



C

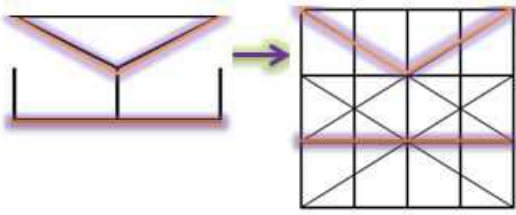


D



Answer: C

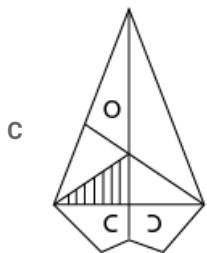
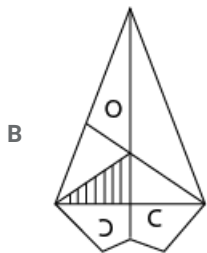
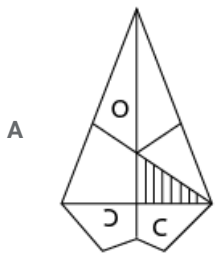
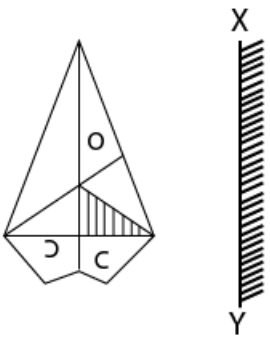
Explanation:

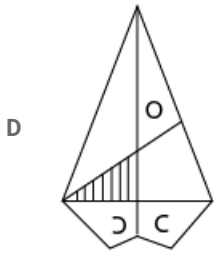


Hence Option C is correct embedded image of Question image.

Question 25

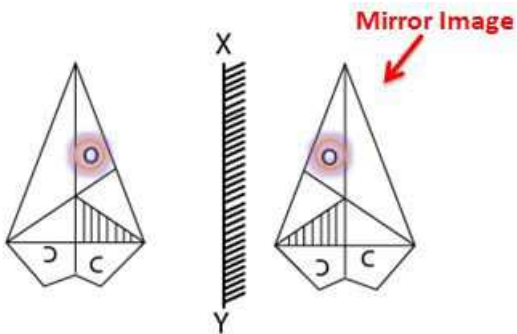
Choose the alternative which most closely resembles the mirror image of the given word when mirror is placed at XY line.





Answer: B

Explanation:



The small circle in mirror image will be opposite side in reflection/mirror image.

Hence, Option B is correct Mirror Image.

## SSC Stenographer Previous Papers (Download PDF)

### General knowledge

#### Instructions

For the following questions answer them individually

#### Question 26

Who was the first Indian woman player to reach the Olympics badminton singles quarterfinals?

- A PV Sindhu
- B Ashwini P
- C Aparna Popat
- D Saina Nehwal

Answer: D

## SSC GD Constable Previous Papers

#### Question 27

Why is it important to have iodised salt in our diet?

- A It improves eye sight
- B It helps in smooth functioning of the thyroid gland
- C It helps in building bones
- D It helps in gaining height

Answer: B



**Question 28**

As per the interim Budget 2019, the 22<sup>nd</sup> AIIMS is proposed to come up in .....

- A Haryana
- B Assam
- C Maharashtra
- D Jharkhand

**Answer: A**

**Question 29**

The Simon Commission which was sent by the British Government was boycotted because:

- A The Commission curbed financial independence of India.
- B The Commission did not have any Indian member.
- C There were differences amongst the members.
- D It gave special powers to the Princely states.

**Answer: B**

## SSC MTS Previous Papers (DOWNLOAD PDF)

**Question 30**

'Moonwalk', the famous dance move, is associated with:

- A Michael Jackson
- B Adele
- C Misha Bryan
- D Fred Astaire

**Answer: A**

**Question 31**

Who amongst the following founded the Bharatiya Jana Sangh (BJS) in 1977?

- A Ashutosh Mukherjee
- B Shyama Prasad Mukherjee
- C Vinayak Savarkar
- D Deen Dayal Upadhyaya

**Answer: B**

**Question 32**

The Finance Minister of India, in his budget speech announced the launching of the indigenously developed semi high speed train named as .....

- A Vikramsheela Express
- B Vande Bharat Express
- C Veer Jawan Express
- D Vaicom Express

**Answer: B**

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

**Question 33**

The ..... movement was led by Muhammad Ali and Shaukat Ali.

- A Khilafat Movement
- B Badshahi Movement
- C Deoband Movement
- D Sultaniya Movement

**Answer: A**

**Question 34**

Which of the following is not a Greenhouse gas?

- A Nitrous Oxide
- B Methane
- C Carbon Dioxide
- D Argon

**Answer: D**

**Question 35**

Who called dams as the 'Temples of Modern India'?

- A Mohandas Karamchand Gandhi
- B Sardar Vallabhbhai Patel
- C T Krishnanchari
- D Pt. Jawaharlal Nehru

**Answer: D**

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

Question 36

Name the place where the Olympic Games originated?

- A Latvia
- B Baghdad
- C Greece
- D Aden

Answer: C

Question 37

Fundamental duties were incorporated in the Indian Constitution by:

- A 56<sup>th</sup> Amendment
- B 42<sup>nd</sup> Amendment
- C 25<sup>th</sup> Amendment
- D 14<sup>th</sup> Amendment

Answer: B

Question 38

The Right to Property was deleted from the list of Fundamental Rights by which of the Amendment of Indian Constitution?

- A 43<sup>rd</sup> Amendment
- B 41<sup>st</sup> Amendment
- C 42<sup>nd</sup> Amendment
- D 44<sup>th</sup> Amendment

Answer: D

## SSC CGL Free Mock Test (Latest Pattern)

Question 39

Acidity in stomach after overeating can be remedied by consuming:

- A vegetables
- B fruit juice
- C lemon juice
- D baking soda

Answer: D

Question 40

Where is the Konark Sun Temple situated?

- A Kedarnath
- B Odisha
- C Madurai
- D Tirupati

**Answer: B**

**Question 41**

**Sanjhi, the paper craft is said to have originated in which of the following places of India?**

- A Bhubaneshwar
- B Coimbatore
- C Mathura
- D Indore

**Answer: C**

## SSC CHSL Free Mock Test (Latest Pattern)

**Question 42**

**Name the acid present in tamarind.**

- A Tartaric acid
- B Lactic acid
- C Amino acid
- D Citric acid

**Answer: A**

**Question 43**

**The objective of the 12th 5 year Plan was .....**

- A Faster, sustainable and more inclusive growth
- B Reducing poverty and exploitation of women
- C Growth with stability and progressive achievement
- D Faster and more inclusive growth

**Answer: A**

**Question 44**

**Which is the first Indian state to start rooftop rainwater harvesting?**

- A Assam
- B Kerala

- C Tamil Nadu
- D Rajasthan

Answer: C

## SSC Stenographer Previous Papers (Latest Pattern)

### Question 45

The Lahore session of the Indian National Congress declared to celebrate 26th January as the Independence day in the year .....

- A 1942
- B 1935
- C 1930
- D 1920

Answer: C

### Question 46

Milk becomes sour if kept outside the refrigerator in summers because of:

- A its colour
- B the conversion of lactose sugar to lactic acid
- C the breakdown of proteins
- D the calcium present in it

Answer: B

### Question 47

Which of the following soils is found in the northern plains of India?

- A Arid soil
- B Alluvial soil
- C Laterite soil
- D Black soil

Answer: B

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

### Question 48

Robben Island, the world heritage site is associated to which of the following figures?

- A Nelson Mandela
- B Winston Churchill
- C Jimmy Carter

D John F. Kennedy

Answer: A

Question 49

Who replaced Sachchidananda Sinha as Chairman of the Constituent Assembly of India?

A Pt. Jawaharlal Nehru

B Dr. Rajendra Prasad

C Sardar Vallabhbhai Patel

D Mohandas Karamchand Gandhi

Answer: B

Question 50

Who played a decisive role in the integration of the princely states of India?

A Motilal Nehru

B Sardar Vallabhbhai Patel

C APJ Abdul Kalam

D TT Krishnamurthy

Answer: B

## SSC MTS Free Mock Test (Latest Pattern)

### Quant

#### Instructions

For the following questions answer them individually

Question 51

The compound interest on a certain sum at a certain rate percent per annum for the second year and the third year are ₹3300 and ₹3630, respectively. The sum is:

A ₹32000

B ₹28400

C ₹30000

D ₹25000

Answer: C

## SSC CPO Free Mock Test (Latest Pattern)

Question 52

A boat can cover 36 km downstream and 16 km upstream in 10 hours. It can cover 3 km downstream and 1.2 km upstream in 48 minutes. What is the speed (in km/hr) of the boat when going upstream?

- A 2
- B 2.5
- C 3.5
- D 4

**Answer: D**

**Explanation:**

let the speed of the boat= $b$   
 speed of the stream= $s$

$$\text{Given } (36)/(b+s) + (16)/(b-s) = 10$$

$$(36b-36s+16b+16s)/((b-s)(b+s))=10$$

$$52b-20s=10(b-s)(b+s)$$

$$\text{Also given } (3)/(b+s) + (1.2)/(b-s) = 4/5$$

$$(3b-3s+1.2b+1.2s)/((b-s)(b+s))=4/5$$

$$4.2b-1.8s=(4/5)(b+s)(b-s)$$

dividing both the equations we have

$$104b-40s=105b-45s$$

$$-b=-5s$$

$$b=5s$$

Substituting in the above equation

$$(3)/(5s+s) + (1.2)/(5s-s) = 4/5$$

$$(1/2s) + (3/10s) = 4/5$$

$$8/10s = 4/5$$

$$s=1 \text{ km/hr}$$

$$b=5 \text{ km/hr}$$

$$\text{Upstream speed} = 5-1$$

$$=4 \text{ km/hr}$$

**Question 53**

The value of  $[0.08 \div 1.2 \text{ of } (3.4 - 2.6) \times 0.8 \text{ of } 3.2] \text{ of } \frac{9}{16}$  lies between:

- A 0.11 and 0.13
- B 0.13 to 0.15
- C 0.09 and 0.11
- D 0.07 and 0.09

**Answer: A**

**Explanation:**

$$=[0.08 \div 1.2 \text{ of } (3.4 - 2.6) \times 0.8 \text{ of } 3.2] \text{ of } \frac{9}{16}$$

$$=[0.08 \div 1.2 \text{ of } 0.8 \times 0.8 \text{ of } 3.2] \text{ of } \frac{9}{16}$$

$$=[0.08 \div 0.96 \times 2.56] \times \frac{9}{16}$$

$$=[(1/12) \times 2.56] \times \frac{9}{16}$$

$$=(16/75) \times \frac{9}{16}$$

$$=9/75$$

$$=0.12$$

Question 54

Study the following table and answer questions:

Number of students studying in five schools of a city

Schools	No of Students	Ratio of boys and girls Boys : Girls
A	680	9:08
B	720	4:05
C	540	5:13
D	660	2:01
E	900	13:12

In how many schools, the number of girls is more than the average number of boys per school?

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

Answer: D

**Explanation:**

Total number of boys in all the schools is

$$(9/17)*680=360$$

$$(4/9)*720=320$$

$$(5/18)*540=150$$

$$(2/3)*660=440$$

$$(13/25)*900=468$$

$$\text{Sum}=1838$$

$$\text{average}=1838/5 =367$$

$$\text{Number of girls in each school}=680-360=320$$

$$720-320=400$$

$$540-150=390$$

$$660-440=220$$

$$900-468=432$$

Therefore three schools have the girls more than average boys per school.

## SSC GD Free Videos (Youtube)

Question 55

Two solutions of acid and water containing acid and water in the ratio 2 : 7 and 4 : 5, respectively are mixed in the ratio 2 : 5. What is the ratio of acid and water in the resulting solution?

- A 8 : 13
- B 3 : 7
- C 8 : 17
- D 2 : 1

Answer: A

**Explanation:**

acid content in 1st solution  $2/9$

acid content in second solution  $=4/9$

They are mixed in the ratio 2:5



x is the acid present in the final mixture  
By using the principle of allegations we have

$$\frac{(4/9)-x}{(x-(2/9))} = \frac{2}{5}$$

$$(20/9) - 5x = 2x - (4/9)$$

$$7x = 24/9$$

$$x = 8/21$$

8 parts of acid and 13 parts of water.

Ratio=8/13

#### Question 56

What is the mean of the range, median and mode of the data:

2, 3, 1, 1, 3, 4, 2, 1, 1, 4, 5, 2, 4, 2, 2, 1, 3, 3, 2, 5

A  $3\frac{1}{3}$

B  $4\frac{1}{2}$

C  $2\frac{2}{3}$

D 4

Answer: C

#### Explanation:

Arranging them in the ascending order we have

1,1,1,1,1,2,2,2,2,2,2,3,3,3,3,4,4,4,5,5

Median=middle value i.e average of 2 and 2 i. e 2

Mode=highest frequency number i.e 2

Range=highest-least value=5-1=4

Average=(2+2+4)/3

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

#### Question 57

Suman sold an article for 882 after allowing 16% discount on its marked price. Had she not allowed any discount, she would have gained 20% on the cost price. What is the cost price of the article?

A 875

B 850

C 890

D 880

Answer: A

#### Explanation:

MP-discount=SP

MP-0.16MP=882

0.84MP=882

MP=882\*100/84

Given in the second case MP=SP

Therefore 1.2CP=SP

CP=SP/1.2

CP=(882\*100)/(84\*1.2)

CP=875

## SSC GD Free App

### Question 58

Two pipes A and B can fill a tank in 12 minutes and 15 minutes, respectively. When an outlet pipe C is also opened, then the three pipes together can fill the tank in 10 minutes. In how many minutes can C alone empty the full tank?

- A 18
- B 20
- C 16
- D 24

**Answer: B**

#### Explanation:

Time taken for Pipe A to fill the tank=12 minutes

Time taken for Pipe B to fill the tank=15 minutes

Time taken for Pipe C to empty the tank=x minutes

Therefore  $(1/12)+(1/15)-(1/x)=(1/10)$

$(1/x)=(1/12)+(1/15)-(1/10)$

$(1/x)=(5+4-6)/60$

$(1/x)=3/60$

$x=20$  minutes

### Question 59

A person covered a distance of 250 km at a certain speed. If his speed is 20% less, he would have covered the same distance in  $1\frac{1}{4}$  hours more time. His speed (in km/hr), initially was:

- A 45
- B 50
- C  $52\frac{1}{2}$
- D  $47\frac{1}{2}$

**Answer: B**

#### Explanation:

Let the original speed be 'V' and time taken be 't' hours

Therefore  $250/V = t$

Now speed=0.8V

Therefore  $250/0.8V = t+5/4$

$250/V = 0.8(t+5/4)$

$t=0.8t+1$

$0.2t=1$

$t=5$  hours

Original speed  $V=250/5$

=50 km/hr

### Question 60

When 32% of a number X was added to another number y, then y increases by 24%. The value of  $\frac{(2x+y)}{3x-y}$  is:

- A 2

B 3

C 8

D 1

Answer: A

**Explanation:**

Given that  $0.32x+y=1.24y$

$0.32x=0.24y$

$x/y = 3/4$

Required value =  $\frac{(2x+y)}{3x-y}$

Substituting  $x=3$  and  $y=4$

$= \frac{(2(3)+4)}{(3(3)-4)}$

$= 10/5$

$= 2$

## SSC GD Important Questions and Answers PDF

Question 61

The average weight of a certain number of persons in a group was 75.5 kg. Later on, 4 persons weighing  $\frac{(2x+y)}{3x-y}$  joined the group. As a result, the average weight of all persons in the group reduced by 500g. The number of persons in the group, initially, was:

A 20

B 16

C 18

D 24

Answer: A

**Explanation:**

Let the number of people be 'x'

Sum of the weights =  $75.5x$

72.6 kg, 74 kg, 73.4 kg and 70 kg were added and average decreased to 75

Sum = 290 kgs

Total sum =  $75.5x + 290$

Average =  $\frac{(75.5x + 290)}{(x+4)}$

$\frac{(75.5x + 290)}{(x+4)} = 75$

$75.5x + 290 = 75x + 300$

$0.5x = 10$

$x = 20$  people

Question 62

Two numbers are in the ratio 5 : 6. If 16 is subtracted from each, the numbers will be in the ratio 3 : 4. If 8 is added to the first number and 3 is subtracted from the second, then they will be in the ratio:

A 14 : 13

B 16 : 15

C 15 : 16

D 13 : 14

Answer: B

**Explanation:**

let the two numbers be  $5x$  and  $6x$

$$\text{Given } (5x-16)/(6x-16)=3/4$$

$$20x-64=18x-48$$

$$2x=16$$

$$x=8$$

Numbers are 40 and 48

8 is added it becomes 48 and 3 is subtracted it becomes 45

Ratio 48:45

$$=16:15$$

**Question 63**

If the radius of a sphere is decreased by 25%, then the percentage decrease in its surface area is:

- A 42
- B 43.75
- C 37.50
- D 40

**Answer: B**

**Explanation:**

$$\text{Surface area of a sphere} = 4\pi r^2 = X$$

$$r_1 = 0.75r$$

$$\text{Surface area of new sphere} = 4\pi(0.75r)^2$$

$$= 9/16 (Y)$$

$$\text{Percentage decrease in the area} = ((Y - (9/16)Y)/Y) * 100$$

$$= 900/16$$

$$= 43.75\%$$

## SSC GD Syllabus (Download PDF)

**Question 64**

The area of an equilateral triangular park is equal to  $5\sqrt{3}$  times the area of a triangular field with sides 18 m, 80 m and 82 m. What is the side of the triangular park?

- A 125 m
- B 120 m
- C 140 m
- D 100 m

**Answer: B**

**Explanation:**

Given sides of the triangle are 18, 80 and 82 cm

these are the sides of a right angled triangle as 9, 40, 41 is a Pythagorean triplet

So area of a right angled triangle =  $(1/2)bh$

$$= (1/2) * 80 * 18$$

$$= 720 \text{ sq cm}$$

$$\text{Given area of an equilateral triangle} = 5\sqrt{3} * 720$$

$$\frac{\sqrt{3}a^2}{4} = 5\sqrt{3} * 720$$

$$a^2 = 36 * 100 * 4$$

$$a = 6 * 10 * 2$$

a=120 cm

**Question 65**

The value of  $1\frac{2}{3} + [16\frac{1}{2} - \{1\frac{1}{10}(3\frac{1}{3} + 5)\}]$  is:

- A  $1\frac{2}{5}$
- B  $1\frac{4}{5}$
- C  $3\frac{2}{5}$
- D  $3\frac{1}{5}$

**Answer: B**

**Explanation:**

$$1\frac{2}{3} + [16\frac{1}{2} - \{1\frac{1}{10}(3\frac{1}{3} + 5)\}]$$

$$= \frac{5}{3} + \frac{33}{2} - \frac{55}{4}$$

$$= \frac{5}{24} + \frac{33}{24} - \frac{55}{24}$$

$$= \frac{54}{24}$$

$$= \frac{9}{4}$$

$$= 2\frac{1}{4}$$

**Question 66**

A sold an article to B at 25% profit. B sold it to C at a profit of 10% and C sold it to D at 40% loss. If D bought it for ₹46.20, then the difference between the profits of A and B is:

- A ₹8.50
- B ₹15
- C ₹6
- D ₹7

**Answer: D**

**Explanation:**

Let the A's CP=x

A's SP=1.25x

B's CP=1.25x

B's SP=1.1\*1.25x

C's CP=1.1\*1.25x

C's SP=0.6\*1.1\*1.25x

D's CP=0.6\*1.1\*1.25x=46.20

0.825x=46.20

x=46.20/0.825

x=Rs 56

A's profit=0.25x=56/4=14

B's profit=0.125x=7

Difference =  $14 - 7 = \text{Rs } 7$

## 20 SSC GD Mocks 117 (Latest Pattern)

### Question 67

The curved surface area of a right circular cylinder of height 28 cm is  $176 \text{ cm}^2$ . The volume (in  $\text{cm}^3$ ) of cylinder is (Take  $\pi = \frac{22}{7}$ )

- A 66
- B 110
- C 88
- D 176

Answer: C

#### Explanation:

Lateral surface area of a cylinder =  $2\pi rh$

Therefore  $2 * (\frac{22}{7}) * r * 28 = 176$

$r = 8/8$

$r = 1 \text{ cm}$

Volume of a cylinder =  $(\pi)r^2h$

$= 22 * 1 * 1 * 28 / 7$

$= 88 \text{ sq cm}$

### Question 68

Study the following table and answer questions:

Number of students studying in five schools of a city

Schools	No of Students	Ratio of boys and girls Boys : Girls
A	680	9:08
B	720	4:05
C	540	5:13
D	660	2:01
E	900	13:12

The ratio of the number of boys in school A to the number of girls in school E is:

- A 3 : 4
- B 5 : 6
- C 8 : 13
- D 5 : 12

Answer: B

#### Explanation:

the number of boys in school A =  $(\frac{9}{17}) * 680$

$= 360$

the number of girls in school E =  $(\frac{12}{25}) * 900$

$= 36 * 12$

$= 432$

Ratio =  $360 : 432$

$= 5 : 6$

**Question 69**

Working together, A, B and C can complete a work in 36 days. If the efficiency of A, B and C are in the ratio 5: 6: 9, then B alone will complete the same work in:

- A 120 days
- B 100 days
- C 60 days
- D 90 days

**Answer:** A

**Explanation:**

Given the ratios of efficiencies 5:6:9 and so

A can do the work in  $(x/5)$  days

B can do the work in  $(x/6)$  days

C can do the work in  $(x/9)$  days

Therefore  $1/(x/5) + 1/(x/6) + 1/(x/9) = 1/36$

$(5/x) + (6/x) + (9/x) = (1/36)$

$20/x = 1/36$

$x = 36 \times 20$

$x = 720$

B can alone do in  $720/6 = 120$  days

**SSC CPO Previous Question papers (download pdf)**

**Question 70**

A person sells a watch at a profit of 26%. If he had bought it at 20% less and sold for ₹81.60 less, he would have gained 32%. What is the original costprice (in ₹) of the watch?

- A 400
- B 480
- C 450
- D 360

**Answer:** A

**Explanation:**

Let the cost price =  $x$

then selling price =  $1.26x$

Given that if he purchased for 20% less then cost price will be  $0.8x$

Selling price is 81.6 less and so new selling price =  $1.26x - 81.6$

given profit percent = 32

Therefore  $1.32(0.8x) = 1.26x - 81.6$

$1.056x = 1.26x - 81.6$

$0.204x = 81.6$

$x = 81.6 / 0.204$

$x = 400$

**Question 71**

Let  $x$  be the greatest number such that when 12085, 16914 and 13841 are divided by it, the remainder in each case is same. The sum of digits of  $x$  is:

- A 14

- B 19
- C 13
- D 16

Answer: D

**Explanation:**

As in this case each number leaves the same remainder we have to find the HCF of differences of the three numbers i.e

$$13841-12085=1756$$

$$16914-13841=3073$$

$$16914-12085=4829$$

HCF of these three numbers is 439

$$\text{sum}=4+3+9=16$$

**Question 72**

The simple interest on a certain sum in  $5\frac{1}{2}$  years at 6% p.a. is ₹ 2541. what will be the amount of the same sum in  $5\frac{2}{3}$  years at  $8\frac{1}{7}\%$  p.a.?

- A ₹13125
- B ₹11235
- C ₹12153
- D ₹11253

Answer: D

**Explanation:**

$$I=\frac{PTR}{100}$$

$$2541=P*(11/2)*(6)/100$$

$$P=(2541*200)/(66)$$

$$P=\text{Rs } 7700$$

$$I=\frac{PTR}{100}$$

$$I=7700*(17/3)*(57/7)/100$$

$$I=(7700*17*57)/(3*7*100)$$

$$I=\text{RS } 3553$$

$$A=P+I$$

$$A=7700+3553$$

$$A=11253$$

**SSC MTS Previous Question papers (download pdf)**

**Question 73**

Study the following table and answer questions:

Number of students studying in five schools of a city

Schools	No of Students	Ratio of boys and girls Boys : Girls
A	680	9:08
B	720	4:05
C	540	5:13
D	660	2:01
E	900	13:12

The total number of girls in schools B and C is what percent less than the total number of boys in schools A and D?

- A 1.25



B 11.25

C 4

D 10

Answer: A

**Explanation:**

The total number of girls in schools B and C =  $720 \times (5/9) + 540 \times (13/18)$

=  $400 + 390$

= 790

the total number of boys in schools A and D =  $680 \times (9/17) + 660 \times (2/3)$

=  $360 + 440$

= 800

percentage required =  $(10/800) \times 100$

= 1.25%

**Question 74**

A sum of ₹4107 is divided between A, B, C and D such that the ratio of shares of A and B is 3 : 4, that of B and C is 2 : 1 and that of C and D is 3 : 5. The share of B is:

A ₹1443

B ₹1003

C ₹1223

D ₹1332

Answer: D

**Explanation:**

Given a:b=3:4

b:c=2:1

b:c=4:2

a:b:c=3:4:2

c:d=3:5

a:b:c=9:12:6

c:d=6:10

a:b:c:d=9:12:6:10

Sum =  $9x + 12x + 6x + 10x$

=  $37x$

Therefore  $37x = 4107$

$x = 4107/37$

$x = 111$

Share of B is  $111 \times 12 = 1332$

**Question 75**

The average of 41 numbers is 63. The average of first 21 number is 61.5 and that of last 21 numbers is 65.5. if 21<sup>st</sup> number is excluded then the average of remaining numbers is:

A 62.475

B 63.5

C 62.5

D 63.575

Answer: A

**Explanation:**

Sum of 41 numbers =  $63 \times 41$

= 2583

Sum of first 21 numbers =  $21 \times 61.5$

= 1291.5

Sum of last 21 numbers =  $21 \times 65.5$

= 1375.5

Sum of 41 numbers and the 21st number =  $1291.5 + 1375.5$

= 2667

21st number in the series is =  $2667 - 2583$

= 84

Sum of 40 numbers =  $2583 - 84$

= 2499

Average =  $2499 / 40$

= 62.475

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### English

**Instructions**

For the following questions answer them individually

**Question 76**

Select the correctly spelt word.

- A Exaggeration
- B Exeggeration
- C Exaggaration
- D Exageration

**Answer: A**

## SSC CHSL Prevoius Papers (DOWNLOAD PDF)

**Question 77**

Select the most appropriate option to fill in the blank.

Scientists tried to find out the ..... behind the occurrence of the phenomenon.

- A interpretation
- B cause
- C clarification
- D illustration

**Answer: B**

**Question 78**

Select the correctly spelt word.

- A Accomodate
- B Accommodate

- C Accommodate
- D Accommodate

Answer: B

**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.

The Indian forces are known for their bravery.

- A No improvement
- B force are known for
- C forces are known of
- D forces is known for

Answer: A

## SSC Stenographer Previous Papers (Download PDF)

**Question 80**

From the given options, identify the segment in the sentence which contains the grammatical error.  
Nowadays spectacles are costly than they used to be.

- A spectacles are
- B costly than
- C they used to be
- D Nowadays

Answer: B

**Question 81**

From the given options, identify the segment in the sentence which contains the grammatical error.  
We must visit this ancient temple which are a hundred years old.

- A We must visit
- B this ancient temple
- C a hundred years old
- D which are

Answer: D

**Question 82**

Select the most appropriate word to fill in the blank.  
Dinosaurs are an ..... species now.

- A age-old
- B extinct

C antique

D ancient

Answer: B

## SSC GD Constable Previous Papers

### Question 83

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.

Regular exercise lead to fitness of the body.

A No improvement

B leads to fitness of the body

C leading to fitness of the body

D will leads to fitness of the body

Answer: B

### Question 84

Select the most appropriate word to fill in the blank.

Apart from cows, buffaloes are also ..... for mass milk production for humans.

A reared

B grown

C produced

D developed

Answer: A

### Instructions

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

Passage:

The neglect of one half of mankind costs the world a great deal both, in economic and social(1)..... A family (2)..... an educated mother is, in most cases, a poorer family than one in which everyone is educated and can (3)..... a living. A family with an uneducated mother may(4)..... in other ways too, because the mother is (5)..... to help the children in their education.

### Question 85

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

A terms

B aspects

C areas

D values

Answer: A

## SSC MTS Previous Papers (DOWNLOAD PDF)

Question 86

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

- A with
- B of
- C without
- D including

Answer: C

Question 87

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

- A Manage
- B eam
- C create
- D plan

Answer: B

Question 88

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

- A suffer
- B destroy
- C fail
- D prosper

Answer: A

## SSC GD Constable Previous Papers (DOWNLOAD PDF)

Question 89

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

- A qualified
- B eligible
- C able
- D unable

Answer: D

Instructions

For the following questions answer them individually

**Question 90**

Select the most appropriate option to fill in the blank.  
The baby bird was ..... by its mother.

- A sacrificed
- B abandoned
- C thrown
- D renounced

**Answer: B**

**Question 91**

Select the option that means the same as the given idiom.  
A stone's throw away

- A At a short distance
- B Many miles away
- C At a remote location
- D Very far off

**Answer: A**

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

**Question 92**

Select the antonym of the given word.  
LATENT

- A Forbidding
- B Obvious
- C Hidden
- D Artificial

**Answer: B**

**Question 93**

From the given options, identify the segment in the sentence which contains the grammatical error.  
Dr. Rana is our teacher of English since this semester.

- A of English since
- B this semester.
- C Dr. Rana is
- D our teacher

**Answer: A**

**Question 94**

Select the synonym of the given word.

**HANDY**

- A Funny
- B Convenient
- C Nice
- D Easy

**Answer: B**

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**Question 95**

Select the synonym of the given word.

**NOMADIC**

- A Wild
- B Barbaric
- C Brave
- D Roving

**Answer: D**

**Question 96**

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**.

We should offer due respects to all elderly persons.

- A offers due respects to
- B No improvement
- C offer due respects for
- D offer due respect to

**Answer: D**

**Question 97**

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

**The grass is greener on the other side**

- A Only green grass grows well
- B Green grass grows everywhere
- C Many things look like green grass
- D Things appear better for others

Answer: D

## SSC CHSL Free Mock Test (Latest Pattern)

### Question 98

Select the antonym of the given word.

**MALEVOLENT**

- A Well-mannered
- B Positive
- C Kind
- D Cruel

Answer: C

### Question 99

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

One who speaks many languages

- A Multilingual
- B Linguist
- C Bilingual
- D Monolingual

Answer: A

### Question 100

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

Something which gets broken easily

- A Fragile
- B Feeble
- C Soft
- D Weak

Answer: A

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