

## SSC CGL Mock Test 1

**Q. (1)** In a row of girls, position of Shreya from left side of the row is 11th and Aishwarya from the right side of the row is 17th. If Reema is sitting just in the middle of Shreya and Aishwarya and her position from Shreya is 5th, then how many girls are sitting in the row?

- a. 35
- b. 37
- c. 26
- d. 29
- e. 31

**Directions Q. (2-3):** Read the following information carefully and answer the questions that follow:

- 'A \* B' means 'A is the mother of B'
- 'A x B' means 'A is the father of B'
- 'A + B' means 'A is the sister of B'
- 'A - B' means 'A is the brother of B'
- 'A > B' means 'A is the son of B'
- 'A < B' means 'A is the daughter of B'

**Q. (2)** In the expression 'P x Q + Y > Z', how is Z related to P?

- a. Daughter-in-law
- b. Daughter
- c. Wife
- d. Sister
- e. Brother

**Q. (3)** In the expression 'X + Y > M - N', how is X related to N?

- a. Son
- b. Daughter
- c. Nephew
- d. Niece
- e. Mother

**Directions Q. (4-5):** In these questions, the relationship between different elements is shown in the statements. The statements are followed by two conclusions. Mark your answer as:

- a. If only conclusion I is true
- b. If only conclusion II is true
- c. If either conclusion I or II is true
- d. If neither conclusion I nor II is true
- e. If both the conclusions I and II are true.

**Q. (4) Statement:**  $A > B \geq C; D < B < E$

**Conclusions:**

- I.  $A > D$
- II.  $C < E$

**Q. (5) Statement:**  $P < Q = O \geq N > M$

**Conclusions:**

- I.  $Q > M$
- II.  $P < N$

**Directions Q. (6-7):** Read the following statement carefully and answer the question given below.

- Point Q is 6 metres towards the North of point P.
- Point T is 10 metres towards the East of point Q.
- Point R is 7 metres towards the East of point P.
- Point S is 11 metres towards the West of point R.

**Q. (6)** How far should one walk from point P in order to reach point S?

- a. 8 metres
- b. 4 metres
- c. 7 metres
- d. 11 metres
- e. 9 metres

**Q. (7)** If a person walks 6 metres South from the point T and then walks after taking a right turn, which of the following points would he reach first?

- a. P
- b. Q
- c. R
- d. S
- e. None of the above

**Directions Q. (8):** In each of the following questions, a question is followed by two statements. You have to select a statement that answers the question. Mark your answer as:

- a. If the data in statement I alone is sufficient to answer the question while the data in statement II alone is not sufficient to answer the question.
- b. If the data in statement II alone is sufficient to answer the question while the data in statement I alone is not sufficient to answer the question.
- c. If the data either in statement I alone or in statement II alone is sufficient to answer the question.
- d. If the data in both statements I and II together are not sufficient to answer the question.
- e. If the data in both statements I and II together are necessary to answer the question.

**Q. (8)** Six girls A, B, C, D, E and F are sitting around a circular table with an equal distance between them. If all the girls are facing the centre, then who is sitting opposite to F?

**Statements:**

- I. F is sitting between A and D while E is sitting adjacent to B and D.
- II. A is adjacent to both F and C while B is sitting adjacent to C.

**Directions Q. (9-11):** What will come in place of (?) in the given series?

**Q. (9)** 22, 23, 27, 36, 52, 77, (?)

- a. 92
- b. 96
- c. 113
- d. 117

e. 120

**Q. (10)** 5, 30, 185, 1300, (?), 93650

- a. 10200
- b. 10405
- c. 5450
- d. 7800
- e. 7650

**Q. (11)** 330, 547, 673, 738, 766, (?)

- a. 775
- b. 873
- c. 947
- d. 830
- e. 780

**Directions Q. (12-15):** The table given below shows the ratio between literate and illiterate persons and the population of seven villages of a district. Study the table and select the most appropriate answers.

Villages	Ratio (literate : illiterate)	Population
A	9 : 2	2354
B	4 : 1	2540
C	7 : 2	2709
D	13 : 4	5100
E	5 : 3	3248
F	5 : 2	4921
G	13 : 6	3990

**Q. (12)** If 42% of the illiterates of village D are males, then what is the number of illiterate women in this village?

- a. 600
- b. 696
- c. 750
- d. 830
- e. 800

**Q. (13)** If the ratio between males and females in the village G is 11 : 8 and 60% females in village G are illiterates, then how many males of this village are illiterate?

- a. 200
- b. 252
- c. 320
- d. 380

e. 170

**Q. (14)** Which village has the maximum percentage of illiterates?

- a. A
- b. C
- c. D
- d. E
- e. G

**Q. (15)** By what percentage is the number of literates in village F is more than the number of literates in village A?

- a. 80%
- b. 60%
- c. 82.50%
- d. 88%
- e. 75%

**Directions Q. (16 -17):** In each question, two equations numbered I and II are given. You have to solve both the equations and mark answer as

- a. If  $p < q$
- b. If  $p > q$
- c. If  $p \geq q$
- d. If  $p \leq q$
- e. If  $p = q$

**Q. (16)** I.  $p = (729)^{\frac{2}{3}}$   
II.  $q^2 = 7225, q > 0$

**Q. (17)** I.  $p^2 - 22p + 121 = 0$   
II.  $q^2 = (1331)^{\frac{2}{3}}$

**Directions Q. (18-20):** Find the antonyms of each of the words given in bold in the following questions.

**Q. (18) Churn**

- a. Agitate
- b. Seethe
- c. Heave
- d. Embed
- e. Baffle

**Q. (19) Propel**

- a. Mobilize
- b. Sling
- c. Flip
- d. Shy
- e. Repress

**Q. (20) Abade**

- a. Wane

- b. Dim
- c. Slack off
- d. Strengthen
- e. Dwindle

**Directions Q. (21-23):** Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence marked as (1), (2), (3), (4) and (5). If the sentence is correct, mark option (5) as your answer.

**Q. (21)** Ridha picked them up one by one (1) / and admired craftsmanship (2) / and then saw that there (3) / were note in the box as well. (4) / No error (5)

- a. (1)
- b. (2)
- c. (3)
- d. (4)
- e. (5)

**Q. (22)** The Chief Minister of Assam sits (1) / third to the right of the (2) / Chief Minister of Delhi and (3) / neither of them sits at extreme ends. (4) / No error (5)

- a. (1)
- b. (2)
- c. (3)
- d. (4)
- e. (5)

**Q. (23)** The poor landless (1) / and marginal farmers (2) / have no other choice (3) / than migrating. (4) / No error (5)

- a. (1)
- b. (2)
- c. (3)
- d. (4)
- e. (5)

**Directions Q. (24-25):** Replace the bold word with an appropriate and synonymous word in each of the following questions.

**Q. (24)** On 21st September every year, World Peace Day is observed. This day was declared by the United Nations General Assembly to **strengthen** the ideals of peace.

- a. Invigorate
- b. Curtail
- c. Vigilante
- d. Improve
- e. Liberate

**Q. (25)** Snowy fortunately became the **heir** to a huge palace and acquired the power to rule the kingdom.

- a. Devisee
- b. Hermit
- c. Ere
- d. Misanthrope
- e. Anchorite

## Answer Key

Q 1. b	Q 2. c	Q 3. d	Q 4. e	Q 5. e
Q 6. b	Q 7. c	Q 8. c	Q 9. c	Q 10. b
Q 11. a	Q 12. b	Q 13. b	Q 14. a	Q 15. c
Q 16. a	Q 17. e	Q 18. d	Q 19. e	Q 20. d
Q 21. d	Q 22. d	Q 23. e	Q 24. a	Q 25. a

## Solutions

**Solution 1:** Position of Reema from left = Position of Shreya from left + Position of Reema from Shreya  
 $= 11 + 5 = 16\text{th}$

Position of Reema from right = Position of Aishwarya from right + Position of Shreya from Aishwarya =  
 $17 + 5 = 22\text{nd}$

Total number of girls = (Sum of the positions of Reema from both sides) - 1  
 $= (16 + 22) - 1$   
 $= 37$

**Solution 2:**  $P \times Q \rightarrow P$  is the father of  $Q$   
 $Q + Y \rightarrow Q$  is the sister of  $Y$   
 $Y > Z \rightarrow Y$  is the son of  $Z$   
 Hence,  $Z$  is the wife of  $P$ .

**Solution 3:**  $X + Y \rightarrow X$  is the sister of  $Y$   
 $Y > M \rightarrow Y$  is the son of  $M$   
 $M - N \rightarrow M$  is the brother of  $N$   
 Therefore,  $X$  is the niece of  $N$ .

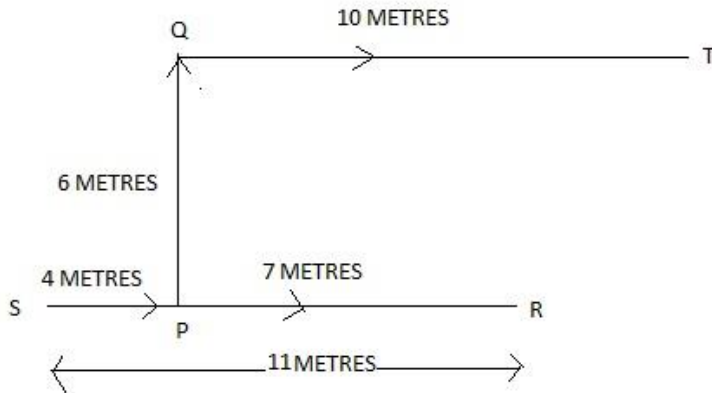
**Solution 4:** From the given statement,  $A > B \geq C$ ;  $D < B < E$ , we can conclude:

- $A > B$ ,  $D < B$ . Therefore,  $A > D$ .
- $B \geq C$ ,  $B < E$ . Therefore,  $C < E$ .

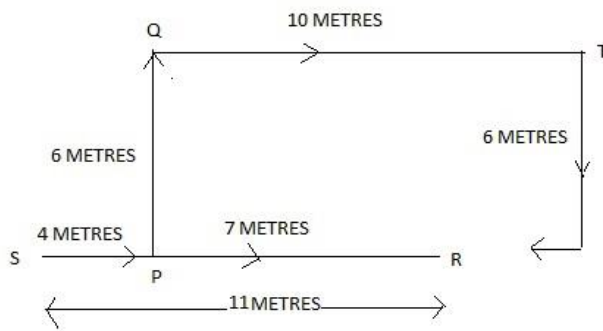
**Solution 5:** From the given statement,  $P < Q = O \geq N > M$ , we can conclude:

- $Q = O$ ,  $O > M$ , therefore,  $Q > M$
- $P < N$

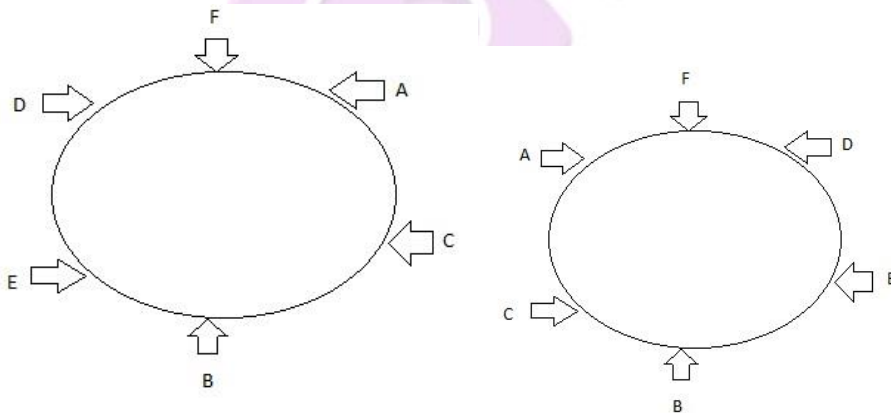
**Solution 6:**



**Solution 7:**



**Solution 8:** As per the question, we get the following two arrangements:



**Solution 9:** The pattern of the given series is as follows:

- $22 + 1^2 = 23$
- $23 + 2^2 = 27$
- $27 + 3^2 = 36$
- $36 + 4^2 = 52$
- $52 + 5^2 = 77$

- $77 + 6^2 = 113$

**Solution 10:** The pattern of the given series is:

- $(5 \times 5) + 5 = 30$
- $(30 \times 6) + 5 = 185$
- $(185 \times 7) + 5 = 1300$
- $(1300 \times 8) + 5 = 10405$
- $(10405 \times 9) + 5 = 93650$

**Solution 11:** The pattern of the given series is:

- $330 + 6^3 + 1 = 547$
- $547 + 5^3 + 1 = 673$
- $673 + 4^3 + 1 = 738$
- $738 + 3^3 + 1 = 766$
- $766 + 2^3 + 1 = 775$

**Solution 12:** Number of illiterates in village D =  $(4 / 17) \times 5100 = 1200$

Number of illiterate females in village D =  $(100 - 42) \%$  of 1200

$$= 58\% \text{ of } 1200 = (58 / 100) \times 1200 = 696$$

**Solution 13:** Number of literates in village G =  $(8 / 19) \times 3990 = 1680$

Number of illiterate women =  $60\%$  of 1680 =  $(60 / 100) \times 1680 = 1008$

Number of illiterates in village G =  $(6 / 19) \times 3990 = 1260$

Therefore, number of illiterate males in village G =  $1260 - 1008 = 252$

**Solution 14:** From the given table, it can be found that the ratio of literates to illiterates in village A is maximum as compared to the other six villages. Therefore, village A has the maximum percentage of literates.

**Solution 15:** Number of literates in village F =  $(5 / 7) \times 4921 = 3515$

Now, the number of literates in village A =  $(9 / 11) \times 2354 = 1926$

Therefore, required percentage =  $[(\text{Number of literates in village F} - \text{Number of literates in village A}) / \text{Number of literates in village A}] \times 100$

$$= [(3515 - 1926) / 1926] \times 100 \\ = 82.50$$

**Solution 16:** Equation I  $\Rightarrow p = (9^3)^{\frac{1}{3}}$

$$\Leftarrow p = (9)^{3 \times \frac{1}{3}} = (9)^1 = 9$$

Equation II  $\Rightarrow q^2 = (\pm 85)^2$

$$\Leftarrow q = \pm 85$$

But since  $q > 0$ , therefore,  $q = 85$

Hence,  $p < q$

**Solution 17:** Equation I  $\Rightarrow p^2 - 11p - 11p + 121 = 0$

$$\Leftarrow p(p - 11) - 11(p - 11) = 0$$

$$\Leftarrow (p - 11)(p - 11) = 0$$

$$\Leftarrow p = 11$$

Equation II  $\Rightarrow q^2 = (11^3)^{\frac{1}{3}}$

$$\Leftarrow q^2 = (11)^2$$



$\leftarrow q = 11$

Therefore,  $p = q$

