# SSC CGL Question Paper 2018 - Reasoning Ability

**Q 1.** Select the set in which the numbers are related in the same way as are the numbers of the following set?
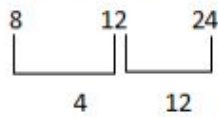(8, 12, 24)
1. 12, 20, 40
2. 9, 18, 27
3. 6, 9, 18
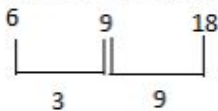4. 6, 10, 18

**Answer: 3**

**Solution 1:**
The series given in the question: 8, 12, 24



4 × 3 = 12
The correct answer is option (3) 6, 9, 18



3 × 3 = 9

**Q 2.** If
'+' denotes '-'
'-' denotes '×'
'×' denotes '÷'
'÷' denotes '+'
What will be the value for
60 × 10 ÷ 40 + 6 - 5 = ?
1. 16
2. 3
3. 200
4. 144

**Answer: 1**

**Solution 2:**
60 × 10 ÷ 40 + 6 - 5 = ?
After changing the signs based on the question, the equation formed is:
60 ÷ 10 + 40 - 6 × 5
= 6 + 40 - 6 × 5
= 46 - 30
= 16

**Q 3.** Two statements are given followed by three conclusions I, II, III. Assuming the statements to be true even if they seem to be at variance with the commonly known facts, decide which of the following conclusion logically follows from the statements.

**Statement I:** no crow is bird
**Statement II:** all birds are animals
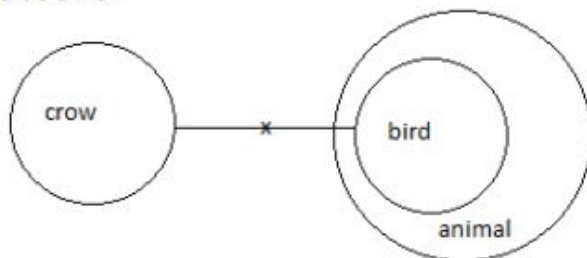
**Conclusion I:** some animals are crows
**Conclusion II:** some animals are birds
**Conclusion III:** no animal is a crow
1. If only conclusion I follows
2. Conclusion II and either I and III follow
3. Both conclusion I and III follow
4. None of the conclusions follows

**Answer: 2**

**Solution 3:**



**Q 4.** D is the son of C and brother of E, who is the niece of F. C is sister of B and aunt of A. B's father has two children, a son and a daughter. If A son of F, how is F related to C?
1. Cousin
2. Mother
3. Sister
4. Sister-in-law

**Answer: 4**

**Solution 4:**
C(-) ↔ B (+) ~ F(-)
↕                    ↕
D (+) ↔ E(-)    A(+)
Where,
(-) denotes female
(+) denotes male
↕ denotes son/daughter
↔ denotes siblings
~ denotes married couple

**Q 5.** In a family of eight persons, there are two couples, each having two children. C and D are cousin brothers. The father of E is married to G, who is the aunt of F. F's mother H, is married to B, the brother of A. C is the nephew of H. How is A related to D?
1. Nephew

2. Father
3. Uncle
4. Brother

**Answer: 3**

**Solution 5:**

H(-) ~ B(+) ↔ A(+) ~ G (-)
↕                  ↕
D(+) ↔ F          E ↔ C(+)

Where,
(-) denotes female
(+) denotes male
↕ denotes son/daughter
↔ denotes siblings
~ denotes married couple

**Q 6.** In a certain code language, TEACHING is coded as SDBDGHOH. What will be the code for BOOKWORM?
1. ANVLPNSN
2. ANPLVNSN
3. ANPLVNNS
4. APNLVNSN

**Answer: 2**

**Solution 6:**

| T(-1) | E(-1) | A(+1) | C(+1) | H(-1) | I(-1) | N(+1) | G(+1) |
|-------|-------|-------|-------|-------|-------|-------|-------|
| S | D | B | D | G | H | O | H |

| B(-1) | O(-1) | O(+1) | K(+1) | W(-1) | O(-1) | R(+1) | M(+1) |
|-------|-------|-------|-------|-------|-------|-------|-------|
| A | N | P | L | V | N | S | N |

**Q 7.** Which letter will replace the question mark (?) in the given series:

A      B      E      J      Q      ?
1. X
2. C
3. S
4. Z

**Answer: 4**

**Solution 7:**
A(+1)  B(+3)  E(+5)  J(+7)  Q(+9)  ?
Q + 9 alphabets = Z

**Q 8.** 'Lawyer' is related to 'Justice', in the same way as 'Arbitrator' is related to '_____'
1.  Judgement
2. Cancellation
3. Settlement
4. Injustice

**Answer: 3**

**Q 9.** If DIG is coded as 25, CUT is coded as 49, then how will KICK be coded?

1. 55
2. 39
3. 31
4. 41

Answer: 2

**Solution 9:**
Position of 'D' in English alphabetical series = 4
Position of 'I' in English alphabetical series = 9
Position of 'G' in English alphabetical series = 7
So, 4 + 9 + 7 = 20
20 + 5 = 25

Position of 'C' in English alphabetical series = 3
Position of 'U' in English alphabetical series = 21
Position of 'T' in English alphabetical series = 20
So, 3 + 20 + 21 = 44
44 + 5 = 49

Position of 'K' in English alphabetical series = 11
Position of 'I' in English alphabetical series = 9
Position of 'C' in English alphabetical series = 3
Position of 'K' in English alphabetical series = 11
So, 11 + 9 + 3 + 11 = 34
34 + 5 = 39

**Q 10.** Two statements are given followed by three conclusions I, II, III. Assuming the statements to be true even if they seem to be at variance with the commonly known facts, decide which of the following conclusion logically follows from the statements.

**Statement I:** All utensils are spoons
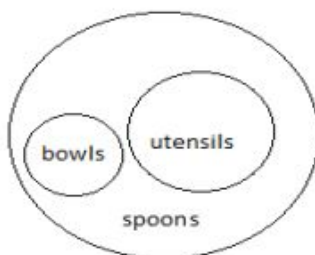**Statement II:** All bowls are spoons

**Conclusion I:** No utensil is a bowl
**Conclusion II:** Some utensils are bowl
**Conclusion III:** No spoon is a utensil

1. Either conclusion I or II follows
2. Both conclusion I and III follow
3. No conclusion follows
4. Only conclusion II follows

Answer: 1

**Q 11.** Select the option that will come next in the given series:
BOP    DPN    FQL    HRJ    ?
1. ISH
2. JSH
3. ITI
4. JSI

**Answer: 2**

**Solution 11:**
B(+2)  O(+1)  P(-2)
D      P      N

D(+2)  P(+1)  N(-2)
F      Q      L

F(+2)  Q(+1)  L(-2)
H      R      J

H(+2)  R(+1)  J(-2)
J      S      H

**Q.12.** Select the word pair in which the two words are related in the same way as are the two words in the given word pair.
Mnemonic: Memory
1. Audience: Speech
2. Sedative: Sleep
3. Drama: Acting
4. Audition: Music

**Answer: 2**

**Q 13.**
A + B means A is mother of B
A - B means A is father of B
A × B means A is sister of B
A ÷ B means A is daughter of B

If P + R × T - Q ÷ S + U, then how is S related to T?
1. Sister
2. Mother
3. Sister-in-law
4. Wife

**Answer: 4**

**Solution 13:**
P + R × T - Q ÷ S + U

P(-)
↕
R(-) ↔ T(+) ~ S(-)
            ↕
        Q(-) ↔ U

Where,
(-) denotes female
(+) denotes male
↕ denotes son/daughter of
↔ denotes siblings
~ married couple

**Q 14.** Two statements are given followed by three conclusions I, II, III. Assuming the statements to be true even if they seem to be at variance with the commonly known facts, decide which of the following conclusion logically follows from the statements.
**Statement I:** Some quadrilaterals are squares
**Statement II:** All squares are rhombus

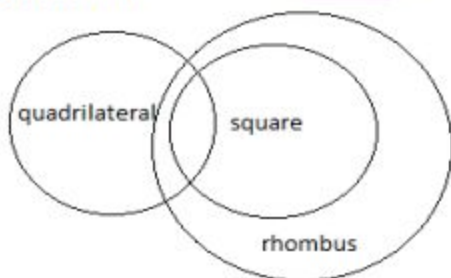**Conclusion I:** No quadrilateral is a rhombus
**Conclusion II:** All rhombus are Square
**Conclusion III:** some quadrilaterals are a rhombus
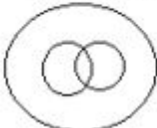   1. Only conclusion I follows
   2. Only conclusion II follows
   3. Only conclusion III follows
   4. None follow
**Answer: 3**

**Solution 14:**

**Q 15.** Choose the Venn diagram that best illustrates the relationship between the following classes:
Women, Entrepreneurs, Engineers

1.



2.



3.



4.



**Answer: 4**

**Q 16.** Arrange the following words in a logical and meaningful order:
A.      Cloud
B.      Rainbow
C.      Devastation
D.      Rain
E.      Low pressure
F.      Flood

  1.  A,B,C,D,E,F
  2.  F,A,D,B,E,C
  3.  E,A,D,B,F,C
  4.  E,C,D,A,F,B
**Answer: 3**

**Q 17.** Find the missing number from the below options:

12      7      95
14      8      132
16      9      ?

1. 185
2. 154
3. 175
4. 164

**Answer: 3**

**Solution 17:**

**12 × 7 = 84 ⟹ 84 + 11 = 95**
**14 × 8 = 112 ⟹ 112 + 20 = 132**
**16 × 9 = 144 ⟹ 144 + (20+11) = 175**

**Q 18.** Saksham introduced Nidhi to his friend, " She is the daughter of the only son of my father's wife."
How is Saksham related to Nidhi?

1. Cousin
2. Father
3. Brother
4. Son

**Answer: 2**

**Solution 18:**
The only son of Saksham's mother is Saksham himself. Hence, Saksham is the father of Nidhi

**Q 19.** Which two signs should be interchanged in the given equation to make the equation correct?
8 × 2 + 5 - 16 ÷ 4 = 14

1. × and ÷
2. ÷ and +
3. + and -
4. × and +

**Answer: 4**

**Solution 19:**
8 + 2 × 5 - 16 ÷ 4 = 14
8 + 10 - 4 = 14
8 + 6 = 14
14 = 14

**Q 20.** In a certain code language 'NEEDLE' is written as 'MFDEKF'. What will be the code for 'HAMMER'?

1. GBLNDS
2. GLBDSA
3. GBLMNK
4. GKMLBS

**Answer: 1**

**Solution 20:**
N(-1)   E(+1)   E(-1)   D(+1)   L(-1)   E(+1)
M       F       D       E       K       F

H(-1)   A(+1)   M(-1)   M(+1)   E(-1)   R(+1)
G       B       L       N       D       S

**Q 21.** Select the option that is related to the third term in the same way as the second term is related to the first one.
LAMP : PALM :: MALE : _____

1. ELAM
2. EAML
3. MEAL
4. LAME

**Answer: 2**

**Solution 21:**
In case of LAMP and PALM,
The first letter of the word LAMP moves to the third position.

The third letter of the word LAMP moves to the fourth position
The position of second letter remains unchanged
The last letter in the word LAMP moves to the first position.

Hence, MALE will be re-written as EAML.

**Q 22.** Two statements are given followed by two conclusions I & II. Assuming the statements to be true even if they seem to be at variance with the commonly known facts, decide which of the following conclusion logically follows from the statements.
**Statement I:** Some teachers are philosophers
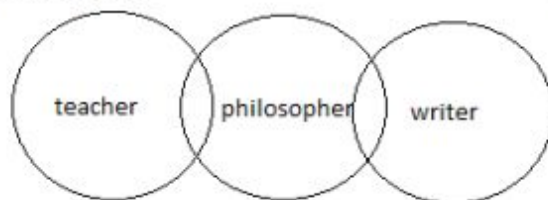**Statement II:** Some philosophers are writers

**Conclusion I:** Some writers are teachers
**Conclusion II:** No writer is a teacher
1. Only conclusion I follows
2. Only conclusion II follows
3. Either conclusion I or II follows
4. Neither conclusion I nor II follows
**Answer: 3**

**Solution 22:**



**Q 23.** Three of the following four-letter clusters are alike in a certain way and one is different. Pick the odd one out.
1. EFST
2. GHTV
3. CDQR
4. ABOP
**Answer: 2**

**Solution 23:**
Among the given set of words, EFST, CDQR and ABOP, the first two and last two alphabets are in continuous order in the English alphabetical series.
However, in GHTV, the TV are not in consecutive order in the English alphabetical series.

**Q 24.** Find the missing number from the below options:
| 17 | 22 | 37 |
|----|----|----|
| 23 | 28 | 43 |
| 16 | ?  | 36 |

1. 32
2. 21
3. 12
4. 31

**Answer: 2**

**Solution 24:**
17 + 5 = 22 $\Longrightarrow$ 22 + 15 = 37
23 + 5 = 28 $\Longrightarrow$ 28 + 15 = 43
16 + 5 = 21 $\Longrightarrow$ 21 + 15 = 36

**Q 25.** 'Cheerful' is related to 'Sad', in the same way, 'Generous' is related to '_____'
1. Selfish
2. Kind
3. Gloomy
4. Intelligent

**Answer: 1**