

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?

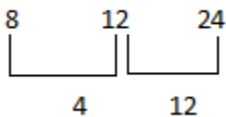
(8, 12, 24)

1. 12, 20, 40
2. 9, 18, 27
3. 6, 9, 18
4. 6, 10, 18

Answer: 3

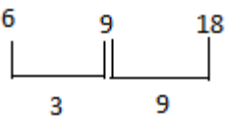
Solution 1:

The series given in the question: 8, 12, 24



$$4 \times 3 = 12$$

The correct answer is option (3) 6, 9, 18



$$3 \times 3 = 9$$

Q 2. If

'+' denotes '-'

'-' denotes 'x'

'x' denotes '÷'

'÷' denotes '+'

What will be the value for

$$60 \times 10 \div 40 + 6 - 5 = ?$$

1. 16
2. 3
3. 200
4. 144

Answer: 1

Solution 2:

$$60 \times 10 \div 40 + 6 - 5 = ?$$

After changing the signs based on the question, the equation formed is:

$$60 \div 10 + 40 - 6 \times 5$$

$$= 6 + 40 - 6 \times 5$$

$$= 46 - 30$$

$$= 16$$

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

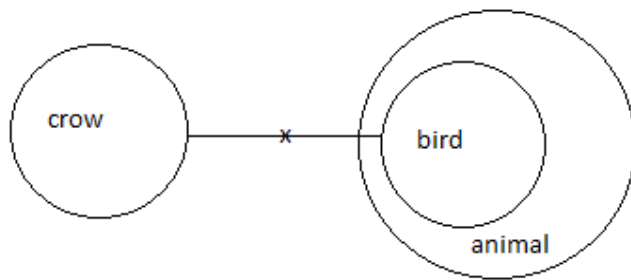
Conclusion II: some animals are birds

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:

$C(-) \leftrightarrow B(+)$ $\sim F(-)$

\updownarrow $D(+)$ $\leftrightarrow E(-)$ \updownarrow $A(+)$

Where,

(-) denotes female

(+) denotes male

\updownarrow denotes son/daughter

\leftrightarrow denotes siblings

\sim denotes married couple

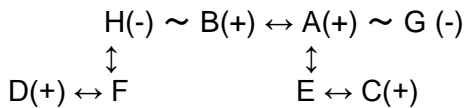
Q 5. In a family of eight persons, there are two couples, each having two children. C and D are cousin brothers. The father of E is married to G, who is the aunt of F. F's mother H, is married to B, the brother of A. C is the nephew of H. How is A related to D?

1. Nephew

2. Father
3. Uncle
4. Brother

Answer: 3

Solution 5:



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

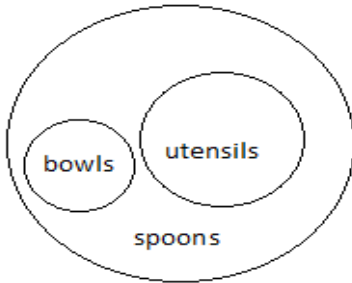
Conclusion II: Some utensils are bowl

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

Solution 10:



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: Speech
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 $P + R \times T - Q \div S + U$, then how is S related to T?

1. Sister
2. Mother
3. Sister-in-law

4. Wife

Answer: 4

Solution 13:

$$P + R \times T - Q \div S + U$$

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

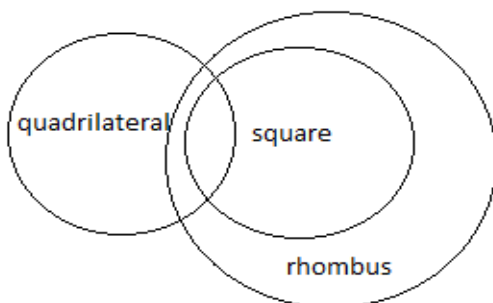
Conclusion II: All rhombus are Square

Conclusion III: some quadrilaterals are a rhombus

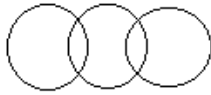
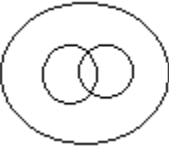
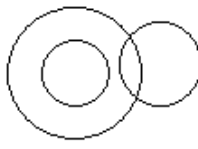
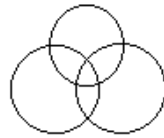
1. Only conclusion I follows
2. Only conclusion II follows
3. Only conclusion III follows
4. None follow

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:

$$12 \times 7 = 84 \Rightarrow 84 + 11 = 95$$

$$14 \times 8 = 112 \Rightarrow 112 + 20 = 132$$

$$132 \times 9 = 144 \Rightarrow 144 + (20+11) = 175$$

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?

$$8 \times 2 + 5 - 16 \div 4 = 14$$

1. \times and \div
2. \div and $+$
3. $+$ and $-$
4. \times and $+$

Answer: 4

Solution 19:

$$8 + 2 \times 5 - 16 \div 4 = 14$$

$$8 + 10 - 4 = 14$$

$$8 + 6 = 14$$

$$14 = 14$$

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

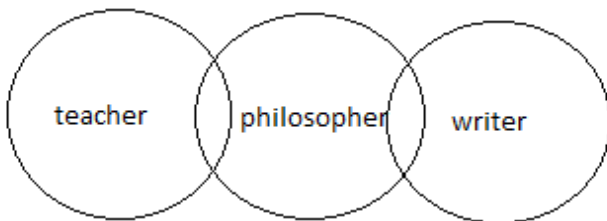
Conclusion I: Some writers are teachers

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:

$$17 + 5 = 22 \Rightarrow 22 + 15 = 37$$

$$23 + 5 = 28 \Rightarrow 28 + 15 = 43$$

$$16 + 5 = 21 \Rightarrow 21 + 15 = 36$$

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

