

SSC CGL REASONING

TCS PYQ Solved Papers

**Combined Graduate Level
Exam (TIER-1)**



**100
SETs**

2021-2024

- Previous years' solved question papers with detailed conceptual explanations
- Promotes clear understanding of the answers without any external help

SSC-CGL

Combined Graduate Level

REASONING

**100
SETS**

**TCS-PYQ
Solved Papers
2021-2024**

- ✓ The questions in this book have been explained in such a way that you can understand the answers along with the concepts in detail without any external help.
- ✓ In the past few years, SSC conducted all its examinations in the CBT (Computer Based Test) format. TCS conducts exams 3 – 4 shift per day. We have selected certain sets based on the novelty of the questions. Specifically, we have provided answers with explanations for those sets in which the questions were of the latest type or particularly difficult.
- ✓ In these examinations, questions are not repeated, but the nature and pattern of the questions remain more or less the same. Therefore, these question sets will be highly beneficial for all examinations conducted by the SSC, as they cover the latest question patterns and difficulty levels.

Solved by

Chandan Singh

Selected in Airforce

Kundan Kumar

Selected in CISF

Sanyog Kumar, Amarendra Kumar

Chronicle Editorial Team



CHRONICLE

Nurturing Talent Since 1990

CONTENTS

2024

1. SSC CGL PYQ Solved Paper (Held On 26/9/2024, Shift 3).....	1-4
2. SSC CGL PYQ Solved Paper (Held On 26/9/2024, Shift 2).....	5-8
3. SSC CGL PYQ Solved Paper (Held On 26/9/2024, Shift 1).....	9-12
4. SSC CGL PYQ Solved Paper (Held On 25/9/2024, Shift 3).....	13-16
5. SSC CGL PYQ Solved Paper (Held On 25/9/2024, Shift 2).....	17-20
6. SSC CGL PYQ Solved Paper (Held On 25/9/2024, Shift 1).....	21-24
7. SSC CGL PYQ Solved Paper (Held On 24/9/2024, Shift 3).....	25-28
8. SSC CGL PYQ Solved Paper (Held On 24/9/2024, Shift 2).....	29-32
9. SSC CGL PYQ Solved Paper (Held On 24/9/2024, Shift 1).....	33-36
10. SSC CGL PYQ Solved Paper (Held On 23/9/2024, Shift 3).....	37-41
11. SSC CGL PYQ Solved Paper (Held On 23/9/2024, Shift 2).....	42-45
12. SSC CGL PYQ Solved Paper (Held On 23/9/2024, Shift 1).....	46-49
13. SSC CGL PYQ Solved Paper (Held On 19/9/2024, Shift 3).....	50-53
14. SSC CGL PYQ Solved Paper (Held On 19/9/2024, Shift 2).....	54-57
15. SSC CGL PYQ Solved Paper (Held On 19/9/2024, Shift 1).....	58-61
16. SSC CGL PYQ Solved Paper (Held On 18/9/2024, Shift 3).....	62-65
17. SSC CGL PYQ Solved Paper (Held On 18/9/2024, Shift 2).....	66-69
18. SSC CGL PYQ Solved Paper (Held On 18/9/2024, Shift 1).....	70-73
19. SSC CGL PYQ Solved Paper (Held On 17/9/2024, Shift 3).....	74-77
20. SSC CGL PYQ Solved Paper (Held On 17/9/2024, Shift 2).....	78-81
21. SSC CGL PYQ Solved Paper (Held On 17/9/2024, Shift 1).....	82-85
22. SSC CGL PYQ Solved Paper (Held On 13/9/2024, Shift 3).....	86-90
23. SSC CGL PYQ Solved Paper (Held On 13/9/2024, Shift 2).....	91-94
24. SSC CGL PYQ Solved Paper (Held On 13/9/2024, Shift 1).....	95-98
25. SSC CGL PYQ Solved Paper (Held On 12/9/2024, Shift 3).....	99-102

2023

1. SSC CGL PYQ Solved Paper (Held On 27/7/2023, Shift 3)	1-4
2. SSC CGL PYQ Solved Paper (Held On 27/7/2023, Shift 2)	5-8
3. SSC CGL PYQ Solved Paper (Held On 27/7/2023, Shift 1)	9-12
4. SSC CGL PYQ Solved Paper (Held On 26/7/2023, Shift 4)	13-16
5. SSC CGL PYQ Solved Paper (Held On 26/7/2023, Shift 3)	17-20
6. SSC CGL PYQ Solved Paper (Held On 26/7/2023, Shift 2)	21-24
7. SSC CGL PYQ Solved Paper (Held On 26/7/2023, Shift 1)	25-28
8. SSC CGL PYQ Solved Paper (Held On 25/7/2023, Shift 4)	29-32
9. SSC CGL PYQ Solved Paper (Held On 25/7/2023, Shift 3)	33-36
10. SSC CGL PYQ Solved Paper (Held On 25/7/2023, Shift 2)	37-40
11. SSC CGL PYQ Solved Paper (Held On 25/7/2023, Shift 1)	41-44
12. SSC CGL PYQ Solved Paper (Held On 24/7/2023, Shift 4)	45-48
13. SSC CGL PYQ Solved Paper (Held On 24/7/2023, Shift 3)	49-52
14. SSC CGL PYQ Solved Paper (Held On 24/7/2023, Shift 2)	53-56
15. SSC CGL PYQ Solved Paper (Held On 24/7/2023, Shift 1)	57-60
16. SSC CGL PYQ Solved Paper (Held On 21/7/2023, Shift 4)	61-64
17. SSC CGL PYQ Solved Paper (Held On 21/7/2023, Shift 3)	65-68
18. SSC CGL PYQ Solved Paper (Held On 21/7/2023, Shift 2)	69-72
19. SSC CGL PYQ Solved Paper (Held On 21/7/2023, Shift 1)	73-76
20. SSC CGL PYQ Solved Paper (Held On 20/7/2023, Shift 4)	77-80
21. SSC CGL PYQ Solved Paper (Held On 20/7/2023, Shift 3)	81-84
22. SSC CGL PYQ Solved Paper (Held On 20/7/2023, Shift 2)	85-88
23. SSC CGL PYQ Solved Paper (Held On 20/7/2023, Shift 1)	89-92
24. SSC CGL PYQ Solved Paper (Held On 19/7/2023, Shift 4)	93-96
25. SSC CGL PYQ Solved Paper (Held On 19/7/2023, Shift 3)	97-100
26. SSC CGL PYQ Solved Paper (Held On 19/7/2023, Shift 2)	101-104
27. SSC CGL PYQ Solved Paper (Held On 19/7/2023, Shift 1)	105-107
28. SSC CGL PYQ Solved Paper (Held On 18/7/2023, Shift 4)	108-111
29. SSC CGL PYQ Solved Paper (Held On 18/7/2023, Shift 3)	112-115
30. SSC CGL PYQ Solved Paper (Held On 18/7/2023, Shift 2)	116-119
31. SSC CGL PYQ Solved Paper (Held On 18/7/2023, Shift 1)	120-123
32. SSC CGL PYQ Solved Paper (Held On 17/7/2023, Shift 4)	124-127
33. SSC CGL PYQ Solved Paper (Held On 17/7/2023, Shift 3)	128-131
34. SSC CGL PYQ Solved Paper (Held On 17/7/2023, Shift 2)	132-135
35. SSC CGL PYQ Solved Paper (Held On 17/7/2023, Shift 1)	136-139
36. SSC CGL PYQ Solved Paper (Held On 14/7/2023, Shift 4)	140-143
37. SSC CGL PYQ Solved Paper (Held On 14/7/2023, Shift 3)	144-147
38. SSC CGL PYQ Solved Paper (Held On 14/7/2023, Shift 2)	148-151
39. SSC CGL PYQ Solved Paper (Held On 14/7/2023, Shift 1)	152-156

2022

1. SSC CGL PYQ Solved Paper (Held On 6/12/2022, Shift 4)	1-4
2. SSC CGL PYQ Solved Paper (Held On 6/12/2022, Shift 3)	5-8
3. SSC CGL PYQ Solved Paper (Held On 6/12/2022, Shift 2)	9-12
4. SSC CGL PYQ Solved Paper (Held On 6/12/2022, Shift 1)	13-16
5. SSC CGL PYQ Solved Paper (Held On 5/12/2022, Shift 4)	17-20
6. SSC CGL PYQ Solved Paper (Held On 5/12/2022, Shift 3)	21-24
7. SSC CGL PYQ Solved Paper (Held On 5/12/2022, Shift 2)	25-28
8. SSC CGL PYQ Solved Paper (Held On 5/12/2022, Shift 1)	29-32
9. SSC CGL PYQ Solved Paper (Held On 3/12/2022, Shift 4)	33-36
10. SSC CGL PYQ Solved Paper (Held On 3/12/2022, Shift 3)	37-40
11. SSC CGL PYQ Solved Paper (Held On 3/12/2022, Shift 2)	41-44
12. SSC CGL PYQ Solved Paper (Held On 3/12/2022, Shift 1)	45-48
13. SSC CGL PYQ Solved Paper (Held On 2/12/2022, Shift 4)	49-52
14. SSC CGL PYQ Solved Paper (Held On 2/12/2022, Shift 3)	53-56
15. SSC CGL PYQ Solved Paper (Held On 2/12/2022, Shift 2)	57-60
16. SSC CGL PYQ Solved Paper (Held On 2/12/2022, Shift 1)	61-64
17. SSC CGL PYQ Solved Paper (Held On 1/12/2022, Shift 4)	65-68
18. SSC CGL PYQ Solved Paper (Held On 1/12/2022, Shift 3)	69-72
19. SSC CGL PYQ Solved Paper (Held On 1/12/2022, Shift 2)	73-76
20. SSC CGL PYQ Solved Paper (Held On 1/12/2022, Shift 1)	77-80

2021

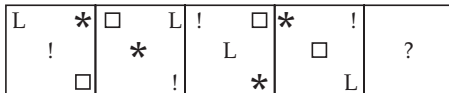
1. SSC CGL PYQ Solved Paper (Held On 24/8/2021, Shift 3)	1-4
2. SSC CGL PYQ Solved Paper (Held On 24/8/2021, Shift 1)	5-8
3. SSC CGL PYQ Solved Paper (Held On 23/8/2021, Shift 1)	9-12
4. SSC CGL PYQ Solved Paper (Held On 20/8/2021, Shift 3)	13-16
5. SSC CGL PYQ Solved Paper (Held On 20/8/2021, Shift 1)	17-20
6. SSC CGL PYQ Solved Paper (Held On 18/8/2021, Shift 3)	21-24
7. SSC CGL PYQ Solved Paper (Held On 18/8/2021, Shift 2)	25-28
8. SSC CGL PYQ Solved Paper (Held On 18/8/2021, Shift 1)	29-31
9. SSC CGL PYQ Solved Paper (Held On 17/8/2021, Shift 2)	32-35
10. SSC CGL PYQ Solved Paper (Held On 17/8/2021, Shift 1)	36-39
11. SSC CGL PYQ Solved Paper (Held On 16/8/2021, Shift 3)	40-43
12. SSC CGL PYQ Solved Paper (Held On 16/8/2021, Shift 2)	44-47
13. SSC CGL PYQ Solved Paper (Held On 16/8/2021, Shift 1)	48-51
14. SSC CGL PYQ Solved Paper (Held On 13/8/2021, Shift 3)	52-55
15. SSC CGL PYQ Solved Paper (Held On 13/8/2021, Shift 2)	56-59
16. SSC CGL PYQ Solved Paper (Held On 13/8/2021, Shift 1)	60-64

1. Three of the following number-pairs are alike in some manner and hence form a group. Which number-pair does not belong to that group?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/ subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

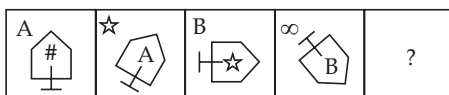
- (a) 9 – 121 (b) 12 – 225
(c) 6 – 64 (d) 8 – 100

2. Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series?



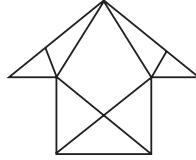
- (a) (b)
(c) (d)

3. Select the figure from among the given options that can replace the question mark (?) and logically complete the series.



- (a) (b)
(c) (d)

4. How many triangles are there in the given figure?



- (a) 12 (b) 11
(c) 10 (d) 13

5. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

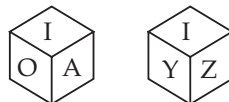
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(96, 29)

(112, 33)

- (a) (204, 55) (b) (188, 52)
(c) (108, 30) (d) (176, 45)

6. Six letters I, O, A, Y, Z and X are written on different faces of a dice. Two positions of this dice are shown in the figures below. Find the letter on the face opposite to O.



- (a) Y (b) Z
(c) X (d) A

7. In this question, three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with

commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All phones are TVs.

Some TVs are big.

Some big are cars.

Conclusions:

I. Some TVs are phones.

II. Some big are TVs.

III. All big are cars.

- (a) Only conclusions I and II follow.
(b) Only conclusions II and III follow.
(c) None of the conclusions follows.
(d) Only conclusion III follows.

8. In a certain code language,

'A + B' means 'A is the mother of B';

'A – B' means 'A is the brother of B';

'A × B' means 'A is the wife of B' and

'A ÷ B' means 'A is the father of B'.

Based on the above, how is 4 related to 1 if '4 × 3 – 2 – 1'?

- (a) Sister (b) Father's sister
(c) Mother (d) Brother's wife

9. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

WEL: DVO :: FOR: ULI :: SDX:?

- (a) HXC (b) HWC
(c) GXC (d) GWC

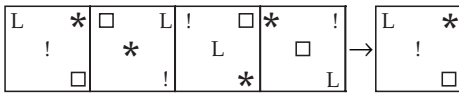
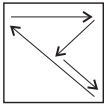
10. Select the option that is related to the fifth letter cluster in the same way as the second letter cluster is related to the first letter cluster and the fourth letter cluster is related to the third letter cluster.

IMPROVE : RPMIEVO :: HISTORY : TSIHYRO :: JOURNEY : ?

- (a) RUOJYEN (b) YENRUOJ
(c) JOURYEN (d) NEYJOUR

EXPLANATION

1. (b), According to option ,
 Option (a)
 $9 - 121$
 $\Rightarrow (1^{\text{st}} \text{ number} + 2)^2 = 2^{\text{nd}} \text{ number}$
 $\Rightarrow (9 + 2)^2 = 112 = 121$
 Option (b)
 $12 - 225$
 $\Rightarrow (1^{\text{st}} \text{ number} + 2)^2 = 2^{\text{nd}} \text{ number}$
 $\Rightarrow (12 + 2)^2 = 142 = 196 \neq 225$
 Option (c)
 $6 - 64$
 $\Rightarrow (1^{\text{st}} \text{ number} + 2)^2 = 2^{\text{nd}} \text{ number}$
 $\Rightarrow (6 + 2)^2 = 82 = 64$
 Option (d)
 $8 - 100$
 $\Rightarrow (1^{\text{st}} \text{ number} + 2)^2 = 2^{\text{nd}} \text{ number}$
 $\Rightarrow (8 + 2)^2 = 102 = 100$
 So, Option (b) is odd one out.
2. (b), The following changes occur in each diagram :



So, correct answer is option (b).

3. (a), The logic follow here :

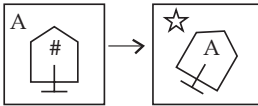


Figure-1

Figure-2

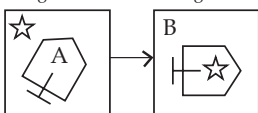


Figure-2

Figure-3

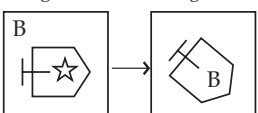


Figure-3

Figure-4

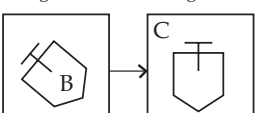
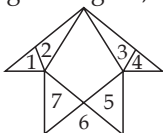


Figure-4

Figure-5

So, correct answer is option (a).

4. (b), As per given figure,



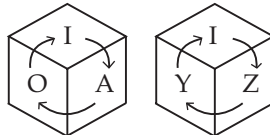
Single digit triangle = 1, 2, 3, 4, 5, 6 and 7 = 7

Double digits triangle = 1, 2 ; 3, 4 ; 5, 6 and 6 ; 7 = 4
 Total triangle = 7 + 4 = 11
 There are 11 triangles in the given figure.

5. (b), Logic follow here:
 $(2^{\text{nd}} \text{ number} \times 4) - 20 = 1^{\text{st}} \text{ number}$
 Just as,
 $(96, 29)$
 $\Rightarrow 29 \times 4 - 20 = 96$
 And
 $(112, 33)$
 $\Rightarrow 112 \times 4 - 20 = 132 - 20 = 112$
 Similarly,
 $(188, 52)$
 $\Rightarrow 52 \times 4 - 20 = 208 - 20 = 188$
 So, correct option is (b).

6. (a), As per given dice

If two dice have the same face value in the given image then their clockwise or anticlockwise wise number or letters are known as opposite numbers in dice.

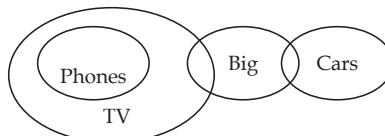


In first dice and second dice. Letter I is common.

The left letter will be opposite to each other writing them clockwise starting from I.

So, Y is opposite letter of O.

7. (a), Statements,

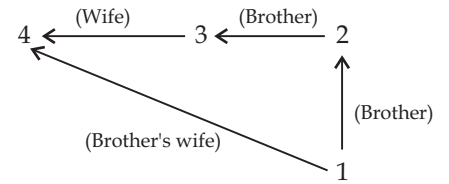


Conclusions

- I. TV Phones
 II. Big TV
 III. Big Cars

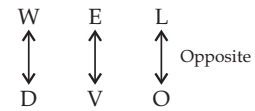
As per given venn diagram conclusions I and II are correct.

8. (d), As per given information,

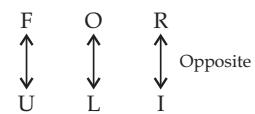


As per diagram 4 is 1's brother's wife.

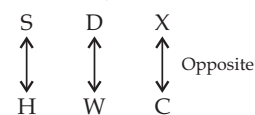
9. (b), Just as,



And

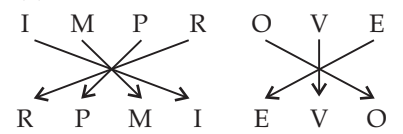


Similarly,

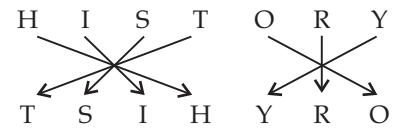


So, SDX will be coded as HWC.

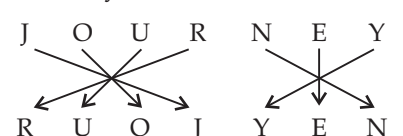
10. (a), Just as,



And

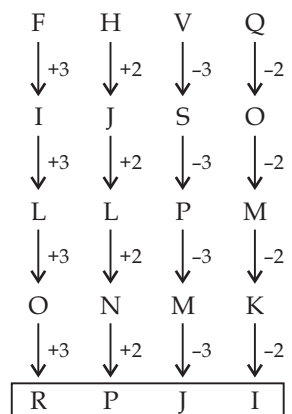


Similarly,



So, JOURNEY will be coded as RUOJYEN.

11. (d), According to question,



So, correct answer is RPJI.

1. Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/ subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

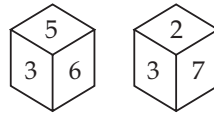
$$48 - 50 - 46 - 52; 37 - 39 - 35 - 41$$

- (a) 26 – 28 – 24 – 30
(b) 19 – 17 – 21 – 25
(c) 21 – 23 – 29 – 27
(d) 15 – 13 – 9 – 19
2. Which of the four options will replace the question mark (?) in the following series?
FX32, EV38, DT44, CR50, ?
(a) DP55 (b) BP56
(c) CQ55 (d) CR54
3. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
ABC_FG_JK_MOPQ_TUV_Y
(a) EHLRX (b) DHLSX
(c) DHLRW (d) EHLRW
4. The second number in the given number pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number pairs except one. Find that odd number pair.
(NOTE : Operations should be

performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / deleting / multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- (a) 13 : 16 (b) 34 : 44
(c) 35 : 36 (d) 23 : 25

5. In a certain code language, 'D' is coded as '16', 'B' is coded as '4' and 'T' is coded as '400'. How will 'H' be coded in the same language?
(a) 36 (b) 64
(c) 8 (d) 25
6. In a certain code language, 'bright colour rainbow' is coded as 'mq bj st' and 'sunny bright day' is coded as 'nv bj fm'. How is 'bright' coded in that language?
(a) bj (b) st
(c) mq (d) nv
7. Six numbers 5, 3, 6, 7, 9 and 2 are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the number on the face opposite to the one having 5.



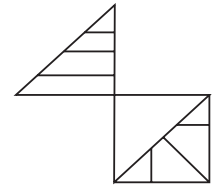
- (a) 6 (b) 2
(c) 3 (d) 9

8. In a certain code language, 'FUTURE' is written as 'IXWXUH' and 'ISLAND' is written as 'LVODQG'. How will 'JERSEY' be written in that language?
(a) KGTVGA (b) MHUVHB
(c) KHTUHA (d) MHTVGB
9. What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$7 + 4 \div 18 - 3 \times 2 = ?$$

- (a) 16 (b) 20
(c) 18 (d) 24

10. How many triangles are there in the figure given below?

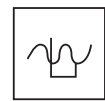


- (a) 10 (b) 8
(c) 12 (d) 14

11. In a certain code language, 'A + B' means 'A is the mother of B'; 'A - B' means 'A is the brother of B'; 'A x B' means 'A is the wife of B' and 'A ÷ B' means 'A is the father of B'. Based on the above, how is I related to H if 'B + R x I - T ÷ H'?

- (a) Father's sister
(b) Father's father
(c) Father's brother
(b) Brother

12. Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



(X)

- (a) (b)
(c) (d)

13. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / deleting / multiplying etc., to 13 can be performed. Breaking down 13 into

EXPLANATION

1. (a), Logic follow here : 1st number + 2nd number = 3rd number + 4th number
Just as,

$$48 - 50 - 46 - 52;$$

$$\Rightarrow 48 + 50 = 46 + 52$$

$$\Rightarrow 98 = 98$$

And

$$37 - 39 - 35 - 41$$

$$\Rightarrow 37 + 39 = 35 + 41$$

$$\Rightarrow 76 = 76$$

Similarly,

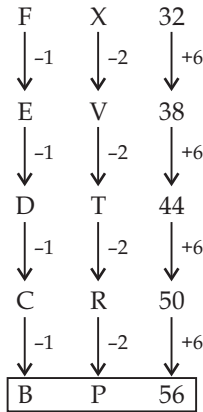
$$26 - 28 - 24 - 30$$

$$\Rightarrow 26 + 28 = 24 + 30$$

$$\Rightarrow 54 = 54$$

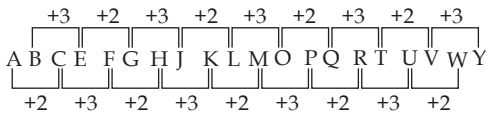
So, correct option is (a).

2. (b), According to question,



So, correct answer is BP56.

3. (d),



So, correct answer is EHLRW.

4. (b), The second number in each number pair is a square while the second number in option (b) is not the square of any number, so option b is different from the rest.

5. (b), Logic follow here :

$$(\text{Position of letter})^2 = \text{code}$$

Just as,

$$D : 16$$

D

↓

$$4^2 = 16$$

And

$$B : 4$$

B

↓

$$2^2 = 4$$

Now

T

↓

$$20^2 = 400$$

Similarly,

H

↓

$$8^2 = 64$$

So, H will be coded as 64.

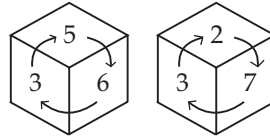
6. (a), As per given information,

bright colour rainbow → mq bj st
sunny bright day → nv bj fm

bright → bj

So, bright will be coded as "bj".

7. (b), As per dice,



If two dice have the same face value in the given image then their clockwise or anticlockwise number are known as opposite numbers in dice.

In first dice and second dice number 3 is common.

The left number will be opposite to each other writing them clockwise starting from 3.

So, 2 is opposite number of 5.

8. (b), Just as,

F	U	T	U	R	E
↓ +3	↓ +3	↓ +3	↓ +3	↓ +3	↓ +3
I	X	W	X	U	H

And

I	S	L	A	N	D
↓ +3	↓ +3	↓ +3	↓ +3	↓ +3	↓ +3
L	V	O	D	Q	G

Similarly,

J	E	R	S	E	Y
↓ +3	↓ +3	↓ +3	↓ +3	↓ +3	↓ +3
M	H	U	V	H	B

So, JERSEY will be coded as MHUVHB.

9. (d), According to question,

$$7 + 4 \div 18 - 3 \times 2 = ?$$

if '÷' and '-' are interchanged and '×' and '+' are interchanged.

$$\Rightarrow 7 \times 4 - 18 \div 3 + 2 = ?$$

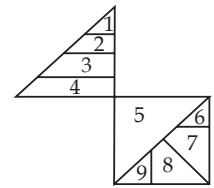
$$\Rightarrow 7 \times 4 - 6 + 2 = ?$$

$$\Rightarrow 28 - 6 + 2 = ?$$

$$\Rightarrow 30 - 6 = 24$$

So, correct answer is 24.

10. (a), As per given figure,



Single digit triangle = 1, 5, 6 and 9 = 4

Double digits triangle = 1, 2, 6, 7 and 8, 9 = 3

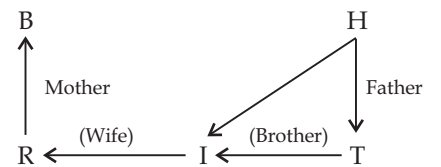
Three digits triangles = 1, 2, 3 = 1

Four digits triangles = 1, 2, 3, 4 and 6, 7, 8, 9 = 2

Total triangle = 4 + 3 + 1 + 2 = 10

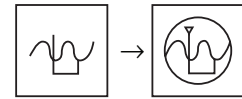
There are 10 triangles in the given figure.

11. (c), As per given information,



As per given diagram I is H's father's brother.

12. (a), The given figure (X) is embedded from -



So, correct answer is option (a).

13. (c), Just as,

$$(16, 7, 112)$$

$$\Rightarrow (1^{\text{st}} \text{ number} \times 2^{\text{nd}} \text{ number})$$

$$= 3^{\text{rd}} \text{ number}$$

$$\Rightarrow (16 \times 7) = 112$$

And

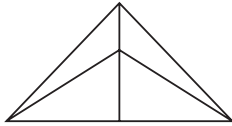
$$(8, 12, 96)$$

$$\Rightarrow (1^{\text{st}} \text{ number} \times 2^{\text{nd}} \text{ number})$$

1. Select the option that can replace the question mark (?) in the following series.

OA33, RD36, UG39, XJ42, ?

- (a) AM45 (b) BN44
(c) BO43 (d) CN41
2. The position of how many letters will remain unchanged if each of the letters in the word 'SPIDER' is arranged in the English alphabetical order?
- (a) Three (b) None
(c) Two (d) One
3. How many triangles are there in the given figure?



- (a) 11 (b) 8
(c) 9 (d) 10
4. Select the triad in which the numbers are related in the same way as are the numbers of the given triads.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(3, 5, 32)

(9, 1, 26)

- (a) (2, 6, 30) (b) (6, 1, 23)
(c) (4, 2, 28) (d) (5, 6, 33)
5. Which of the following terms will replace the question mark (?) in the given series?

OPOR, NOPS, ?, LMRU, KLSV

- (a) MNQP (b) MNTQ
(c) MNQT (d) NMQT

6. In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follows/follow from the statements.

Statements:

All red are green.

All green are pink.

No pink is blue.

Conclusions:

I. No green is blue.

II. Some blue are red.

- (a) Only conclusion I follows.
(b) Both conclusions I and II follow.
(c) Only conclusion II follows.
(d) Neither conclusion I nor II follows.
7. What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$229 \div 41 + 502 \times 2 - 44 = ?$$

- (a) 9281 (b) 9182
(c) 9812 (d) 9218

8. In a certain code language, 'A + B' means 'A is the son of B'; 'A # B' means 'A is the sister of B'; 'A x B' means 'A is the wife of B'; and, 'A @ B' means 'A is the father of B'. Based on the above, how is M related to T if 'M # N @ L x P + T'?

- (a) Son's wife's father's mother
(b) Son's wife's father
(c) Son's wife's sister
(d) Son's wife's father's sister

9. In a certain code language, 'FRAMED' is coded as '497621' and 'DREAMT' is coded as '769542'. What is the code for 'T' in that language?

- (a) 4 (b) 5
(c) 1 (d) 7

10. Select the correct mirror image of the given figure when the mirror is placed at MN.

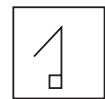


- (a) e 4 6 3 a M
(b) e 4 3 6 a M
(c) e h 3 9 a M
(d) e h 3 6 a M

11. In a certain code language, FIGURE is coded as 'VSUGJW' and COPIED is coded as 'YMLSWX'. What will be the code for BLANKET?

- (a) ZPANQHW
(b) ZPMNQHW
(c) ZPANQWH
(d) ZPNAQWH

12. Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



(X)

- (a) (b)
(c) (d)

13. Select the number from among the given options that can replace the question mark (?) in the following series.

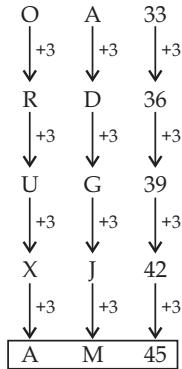
30, 22, 36, 75, 178, ?

- (a) 361 (b) 480
(c) 400 (d) 343

14. Three of the following four options are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

EXPLANATION

1. (a), According to question,



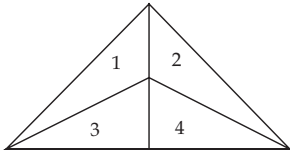
So, correct answer is AM45.

2. (d), As per given information,

Word	S	P	I	D	E	R
Arrange word	D	E	I	P	R	S

 So, one letter will remain unchanged.
So, correct option is (d).

3. (b), According to figure,


 Single digit triangles = 4
Double digit triangles = 1,3; 2,4;
and 3,4 = 3
Other triangles = 1
Total number of triangles
= 4 + 3 + 1 = 8

4. (b), Logic follow here

 $(1^{\text{st}} \text{ number} \times 2^{\text{nd}} \text{ number} + 17)$
= 13rd number

Just as,

(3, 5, 32)

 $\Rightarrow 3 \times 5 + 17$

= 15 + 17 = 32

And

(9, 1, 26)

 $= 9 \times 1 + 17$
 $\Rightarrow 9 \times 17 = 26$

Similarly,

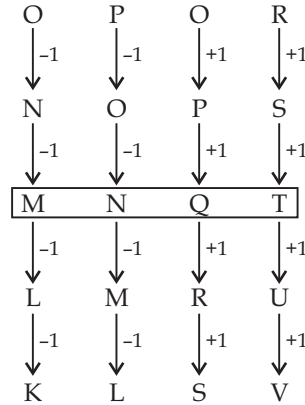
(6, 1, 23)

 $\Rightarrow 6 \times 1 + 17$

6 + 17 = 23

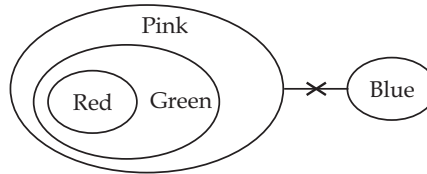
So, correct option is (b)

5. (c), According to question,

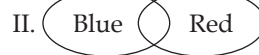
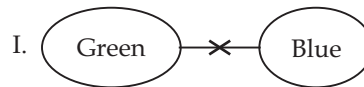


So, correct answer is MNQT.

6. (a), Statements,



Conclusions



As per venn diagram only conclusion I is correct.

7. (b), According to question,

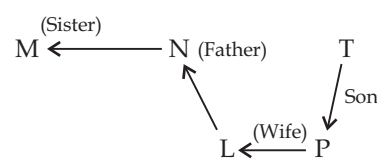
 $229 \div 41 + 502 \times 2 - 44 = ?$

if '+' and '-' are interchanged and 'x' and '÷' are interchanged.

 $\Rightarrow 229 \times 41 - 502 \div 2 + 44 = ?$
 $\Rightarrow 229 \times 41 - 251 + 44 = ?$
 $\Rightarrow 9389 - 251 + 44 = ?$
 $\Rightarrow 9433 - 251 = 9182$

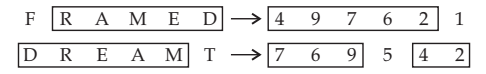
So, correct answer is option (b).

8. (d), As per given information



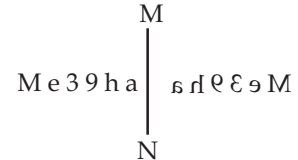
As per diagram M is T's son's wife's father's sister.

9. (b), As per given information,


 $T \rightarrow 5$

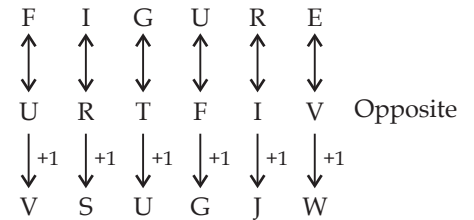
So, T will be coded as 5.

10. (d), Mirror image

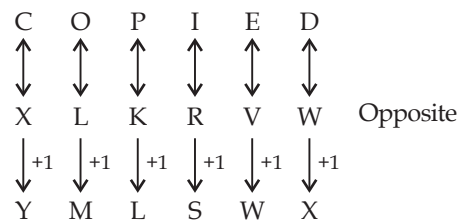


So, correct answer is option (d).

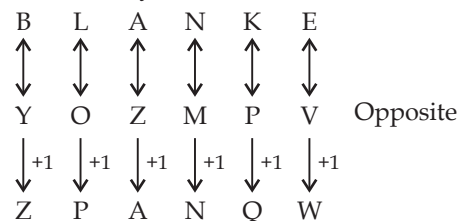
11. (c), Just as,



And

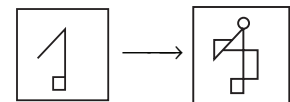


Similarly,



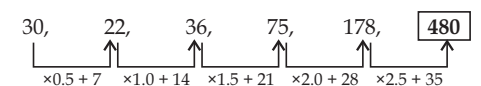
So, BLANKET will be coded as ZPANQWH.

12. (c), The given figure is embedded from



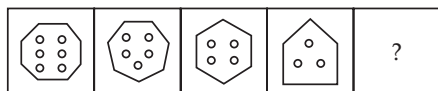
So, correct answer is option (c).

13. (b), According to question,



So, correct answer is 480.

1. Select the figure from among the given options that can replace the question mark (?) in the following series.



- (a) (b)
(c) (d)

2. 'Tame' is related to 'Wild' in the same way as 'Adjacent' is related to '_____'.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

- (a) Distant
(b) Close
(c) Accommodating
(d) Neighbouring

3. In a certain code language,

A + B means 'A is the husband of B',
A - B means 'B is the mother of A',
A × B means 'B is the sister of A' and
A ÷ B means 'A is the daughter of B'.

Based on the above, how is Q related to T if 'P + Q × R - S ÷ T'?

- (a) Sister
(b) Daughter's husband
(c) Mother's mother
(d) Daughter's daughter

4. 'LISP' is related to 'ORHK' in a certain way based on the English alphabetical order. In the same way, 'WAND' is related to 'DZMW'. To which of the following is 'BOTE' related, following the same logic?

- (a) YLGV (b) YKFW
(c) YMHV (d) YKFU

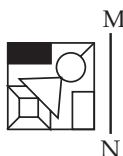
5. 14 is related to 42 following a certain logic. Following the same logic, 26 is related to 78. To which of the

following is 47 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / deleting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- (a) 143 (b) 141
(c) 135 (d) 137

6. Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



- (a) (b)
(c) (d)

7. The same operation(s) are followed in all the given number pairs except one. Find that odd number pair.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / deleting / multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- (a) 12 : 152 (b) 13 : 169
(c) 15 : 195 (d) 11 : 143

8. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

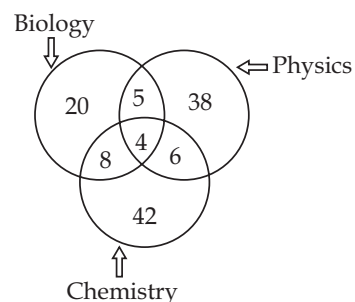
- (a) PJR (b) LFN
(c) IAK (d) UOW

9. In a certain code language, 'CASE' is written as 'FTBD' and 'CAKE' is written as 'FLBD'. How will 'CALF' be written in that language?

- (a) GBMD (b) GMDB
(c) GBDM (d) GMBD

10. Study the given diagram carefully and answer the question that follows. The numbers in different sections indicate the number of students who like to study different subjects.

What is the difference between the number of students who like to study all the three subjects and that of students who like to study biology only?



- (a) 16 (b) 3
(c) 19 (d) 17

11. Which of the following numbers will replace the question marks (?) in the given series?

88, 78, 70, 64, 60, ?, ?

- (a) 56, 54 (b) 56, 56
(c) 58, 56 (d) 58, 58

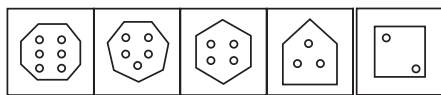
12. Which of the following terms will replace the question mark (?) in the given series?

AEYT, CGWR, EIUP, ?, IMQL

- (a) GKTN (b) GLTN
(c) GLSN (d) GKSJ

EXPLANATION

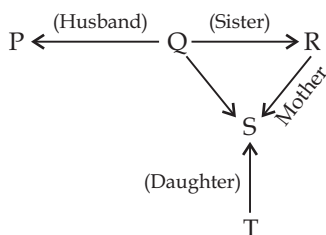
1. (d), Logic follow here : Each image is missing a corner and a point.



So, correct answer is option (d).

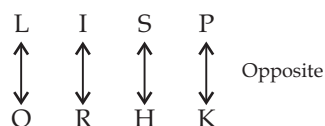
2. (a), Tame and Wild are antonyms. Similarly, Adjacent and Distant are antonyms.

3. (d), As per information,

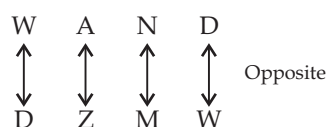


As per diagram Q is T's daughter's daughter.

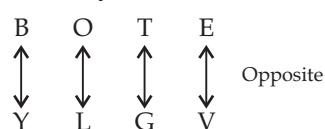
4. (a), Just as,



And



Similarly,



So, BOTE will be coded as YLGV.

5. (b), Just as,

14 : 42

$$\Rightarrow 1^{\text{st}} \text{ number} \times 3 = 2^{\text{nd}} \text{ number}$$

$$\Rightarrow 14 \times 3 = 42$$

And

26 : 78

$$\Rightarrow 1^{\text{st}} \text{ number} \times 3 = 2^{\text{nd}} \text{ number}$$

$$\Rightarrow 26 \times 3 = 78$$

Similarly,

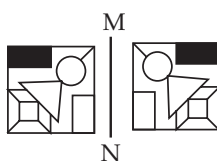
47 : ?

$$\Rightarrow 1^{\text{st}} \text{ number} \times 3 = 2^{\text{nd}} \text{ number}$$

$$\Rightarrow 47 \times 3 = 141$$

So, correct answer is 141.

6. (b), Mirror image



So, correct answer is option (b).

7. (a), According to options

Option (a)

12 : 152

$$\Rightarrow 1^{\text{st}} \text{ number} \times 13 = 2^{\text{nd}} \text{ number}$$

$$\Rightarrow 12 \times 13 = 156 \neq 152$$

Option (b)

13 : 169

$$\Rightarrow 1^{\text{st}} \text{ number} \times 13 = 2^{\text{nd}} \text{ number}$$

$$\Rightarrow 13 \times 13 = 169$$

Option (c)

15 : 195

$$\Rightarrow 1^{\text{st}} \text{ number} \times 13 = 2^{\text{nd}} \text{ number}$$

$$\Rightarrow 15 \times 13 = 195$$

Option (d)

11 : 143

$$\Rightarrow 1^{\text{st}} \text{ number} \times 13 = 2^{\text{nd}} \text{ number}$$

$$\Rightarrow 11 \times 13 = 143$$

So, the odd number pair is 12 : 152.

8. (c), According to options,

Option (a)

$$P \xrightarrow{-6} J \xrightarrow{+8} R$$

Option (b)

$$L \xrightarrow{-6} F \xrightarrow{+8} N$$

Option (c)

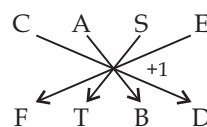
$$I \xrightarrow{-8} A \xrightarrow{+11} K$$

Option (d)

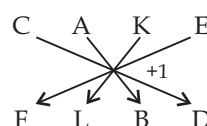
$$U \xrightarrow{-6} O \xrightarrow{+8} W$$

So, IAK is odd one out.

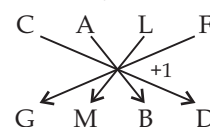
9. (d), Just as,



And

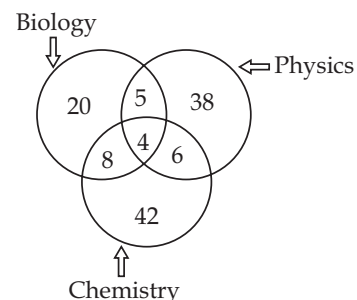


Similarly,



So, CALF will be coded as GMBD.

10. (a), As per given information,



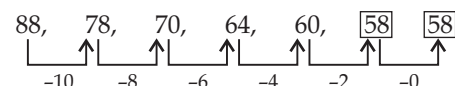
Total number of students who likes only biology = 20

Total number of students who like to study all the three subjects = 4

$$\text{Difference} = 20 - 4 = 16$$

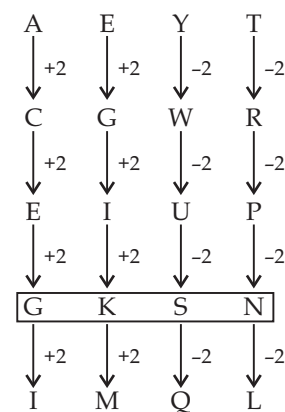
So, correct answer is 16.

11. (d), According to question,



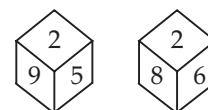
So, correct answer is 58 and 58.

12. (d), According to question,



So, correct answer is GKSN.

13. (c), As per dice,



The numbers 9, 5, 8 and 6 are on the faces adjacent to the number 2.

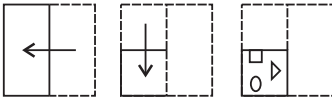
Therefore, the number 3 is opposite of 2.

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

EYES : FTFZ :: MIND : OENJ :: REST : ?

- (a) STRE (b) STSF
(c) TUF5 (d) TUSF

2. A paper is folded and cut as shown below. How will it appear when unfolded?



- (a) (b)
(c) (d)

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

$$139 + 40 \div 5 - 168 \times 3 = 283$$

- (a) - and + (b) - and $\times$
(c) $\div$ and $\times$ (d) + and $\div$

4. In a certain code language, 'DRAPE' is coded as '65432' and 'TAPED' is coded as '24596'. What is the code for 'R' in that language?

- (a) 2 (b) 9
(c) 6 (d) 3

5. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow from the statements.

Statements:

All papers are pencils.
All pencils are erasers.
All erasers are pens.

Conclusions:

I. All pens are papers.
II. Some papers are erasers.
III. Some pens are pencils.

- (a) Only conclusions II and III follow
(b) All the conclusions follow
(c) Only conclusions I and III follow
(d) Only conclusions I and II follow

6. Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- (a) IKL (b) QST
(c) ACD (d) TWW

7. Three of the following four options are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

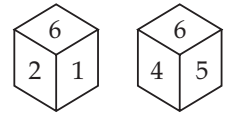
- (a) $36 - 88 - 80$ (b) $34 - 56 - 62$
(c) $68 - 54 - 94$ (d) $23 - 56 - 51$

8. Select the figure from among the given options that can replace the question mark (?) and logically complete the series.



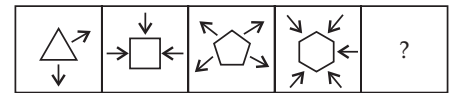
- (a) (b)
(c) (d)

9. Two different positions of the same dice are given below. Which is the number on the face opposite the face containing 5?



- (a) 3 (b) 6
(c) 2 (d) 1

10. Identify the figure from among the given options which when put in place of the question mark (?) will logically complete the series.



- (a) (b)
(c) (d)

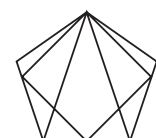
11. Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

$$8 - 33 - 66 - 81; 11 - 36 - 72 - 87$$

- (a) $15 - 40 - 80 - 95$
(b) $6 - 31 - 62 - 97$
(c) $21 - 46 - 82 - 107$
(d) $18 - 43 - 86 - 100$

12. How many triangles are there in the given figure?

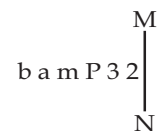


- (a) 12 (b) 11
(c) 13 (d) 10
13. In a certain code language,
A + B means 'A is the son of B',
A - B means 'A is the wife of B',
A × B means 'A is the brother of B'
and
A ÷ B means 'A is the mother of B'.
Based on the above, how is T related to P if 'P - M + R ÷ T × S'?
- (a) Brother
(b) Sister
(c) Brother's wife
(d) Husband's brother
14. Select the correct mirror image of the given figure when the mirror is placed at MN as shown.
-
- (a) 1 0 5 2 7 (b) 1 0 2 2 7
(c) 1 0 5 2 7 (d) 1 0 2 2 7
15. All the alphabets in the word 'CARDBOARD' are arranged in the alphabetical order. How many alphabets are there in the English alphabetical series between the alphabet which is fourth from the left end and the one which is second from the right end in the newly formed cluster of nine letters?
- (a) 16 (b) 12
(c) 14 (d) 10
16. The position of how many letters will remain unchanged if all the letters in the word RICKET are arranged in English alphabetical order?
- (a) None (b) One
(c) Three (d) Two

17. 18 is related to 90 following a certain logic. Following the same logic, 31 is related to 155. To which of the following is 52 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / deleting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- (a) 248 (b) 256
(c) 260 (d) 265
18. Select the number from among the given options that can replace the question mark (?) in the following series.
- 66, 75, 86, 99, 114, ?
- (a) 135 (b) 140
(c) 131 (d) 139
19. 'Obstinate' is related to 'Stubborn' in the same way as 'Resolute' is related to '_____'.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
- (a) Wavering (b) Determined
(c) Dithering (d) Thoughtful
20. Select the correct combination of letters that when sequentially filled in the blanks of the given series will make the series logically complete.
- B _ FH _ LNP _ T _ X
- (a) DIQU (b) CIQW
(c) DJRV (d) CKSU
21. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



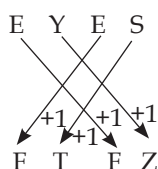
- (a) $\Sigma \text{E} \text{I} \text{m} \text{a} \text{d}$ (b) $\Sigma \text{E} \text{I} \text{m} \text{e} \text{d}$
(c) $\Sigma \text{P} \text{3} \text{m} \text{a} \text{d}$ (d) $\Sigma \text{E} \text{I} \text{m} \text{a} \text{b}$
22. Which two numbers (not digits) should be interchanged to make the given equation correct?
- $15 + 5 \times 8 - 72 \div 4 + 16 \times 3 = 101$
- (a) 5 and 4 (b) 8 and 4
(c) 5 and 3 (d) 15 and 16
23. 17 is related to 102 following a certain logic. Following the same logic, 29 is related to 174. To which of the following is 39 related, following the same logic?
- (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / deleting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
- (a) 230 (b) 228
(c) 238 (d) 234
24. In a certain code language, 'CLERK' is written as 'BKEQJ' and 'OFFICE' is written as 'OEEIBE'. How will 'POST' be written in that language?
- (a) OSOR (b) RSOO
(c) OROS (d) OORS
25. In the following series, only one letter-cluster is incorrect. Select the incorrect letter-cluster.

ZXU SQN LKI ECZ XVS

- (a) SQN (b) ECZ
(c) XVS (d) LKI

EXPLANATION

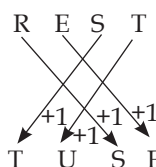
1. (d), Just as,



And

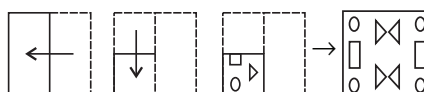


Similarly,



So, REST will be coded as TUSF.

2. (a), When unfolded the pieces of paper as per the given instructions, it would be -



So, correct answer is option (a).

3. (c), According to question,

$$139 + 40 \div 5 - 168 \times 3 = 283$$

After changing the sign $\div$ and $\times$

$$\Rightarrow 139 + 40 \times 5 - 168 \div 3 = 283$$

$$\Rightarrow 139 + 40 \times 5 - 56 = 283$$

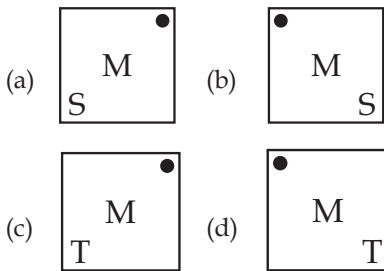
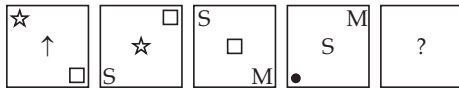
$$\Rightarrow 139 + 200 - 56 = 283$$

$$\Rightarrow 339 - 56 = 283$$

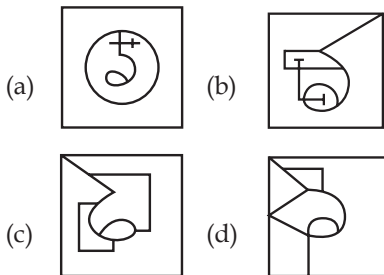
$$\Rightarrow 283 = 283 \text{ (balance)}$$

So, correct answer is option (c).

1. Select the figure from among the given options that can replace the question mark (?) and complete the pattern.



2. Select the option figure in which the given figure (X) is embedded (rotation is NOT allowed).



3. The position of how many letters will change if each of the letters in the word 'CORNFLAKES' is rearranged in the English alphabetical order from left to right?

- (a) Nine (b) Seven
(c) Eight (d) Ten

4. All the six members of a family, 1, 2, 3, 4, 5 and 6, live together. 2 is the daughter of 3, but 3 is not the mother of 2. 1 and 3 are a married couple. 5 is the sister of 3. 4 is the daughter of 1. 6 is the brother of 2. Who is the mother of 2?

- (a) 4 (b) 5
(c) 2 (d) 1

5. Select the term from among the given options that can replace the question mark (?) in the given series.

HM71, JP68, LS65, NV62, ?

- (a) QX58 (b) PY59
(c) QY57 (d) RX59

6. 11 is related to 121 following a certain logic. Following the same logic, 22 is related to 484. To which of the following is 31 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / deleting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

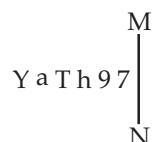
- (a) 961 (b) 973
(c) 957 (d) 943

7. Which number will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$27 \times 3 + 4 \div 2 - 7 = ?$$

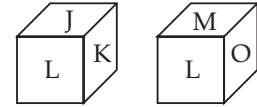
- (a) 8 (b) 10
(c) 9 (d) 6

8. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- (a) Y a T h 9 7 (b) 7 9 4 T h Y
(c) Y a T h 9 7 (d) Y a T h 9 7

9. Six letters J, K, L, M, N and O are written on different faces of a dice. Two positions of this dice are shown in the figure below. Find the letter on the face opposite to N.



- (a) K (b) L
(c) M (d) J

10. Which letter-cluster will replace the question mark (?) to complete the given series?

CQJG, ERMJ, ?, ITSP, KUVS

- (a) GSPM (b) GTPM
(c) GRPM (d) GSQM

11. The same operation(s) are followed in all the given number pairs except one. Find that odd number pair.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / deleting / multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- (a) 11 : 121 (b) 5 : 11
(c) 22 : 45 (d) 7 : 15

12. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

CRW: TIN :: DOZ: UFQ :: ALW: ?

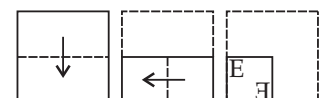
- (a) RCM (b) JCN
(c) RCN (d) JCM

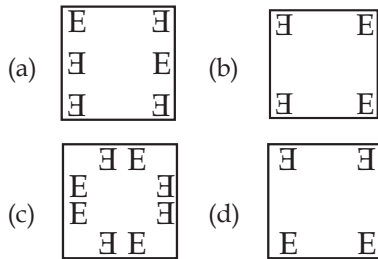
13. Select the number from among the given options that can replace the question mark (?) in the following series.

35, 46, 68, 101, 145, ?

- (a) 200 (b) 212
(c) 210 (d) 214

14. A paper is folded and cut as shown below. How will it appear when unfolded?





15. In a certain code language, 'EAGLE' is written as 'DZFKD' and 'DREAM' is written as 'CQDZL'. How will 'SINCE' be written in that language?

(a) RHMBD (b) RJOB D
(c) THMDF (d) TJODF

16. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some vegetables are fruits.

Some fruits are flowers.

All flowers are garlands.

Conclusions:

I. Some garlands are fruits.

II. Some vegetables are flowers.

III. Some vegetables are garlands.

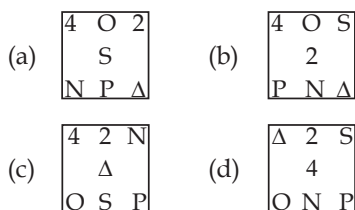
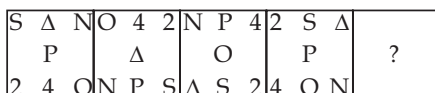
(a) Only conclusions I and III follow

(b) Only conclusions II and III follow

(c) Only conclusion I follows

(d) Only conclusions I and II follow

17. Select the figure from among the given option that can replace the question mark (?) in the following series.



18. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

Note : The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.

(a) SQPN (b) NLKI
(c) YWVT (d) WVTS

19. In a certain code language, 'EXCESS' is written as '726572121', 'ENERGY' is written as '716720927', how will 'ESCAPE' be written in that language?

(a) 72153165 (b) 71933187
(c) 72151167 (d) 72153187

20. Select the correct combination of mathematical signs to sequentially place from left to right in the blanks below to balance the given equation.

$$75 _ 3 _ 17 _ 8 = 0$$

(a) $\div, -, -$ (b) $\times, +, -$
(c) $-, -, +$ (d) $-, -, \times$

21. Select the option that represents the letters that when sequentially placed from left to right in the blanks below will complete the letter series.

Z _ A _ Z _ _ Z A _ Z _

(a) AZAZAZ (b) ZZZAAA
(c) AZZAZZ (d) ZZAZZA

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

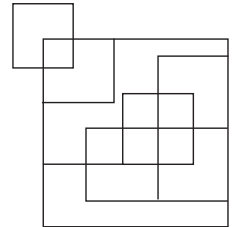
$$4 : 68 :: 8 : 136 :: 9 : ?$$

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/deleting/multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing

mathematical operations on 1 and 3 is not allowed.)

(a) 152 (b) 147
(c) 149 (d) 153

23. How many squares are there in the figure shown below?



(a) 16 (b) 15
(c) 17 (d) 18

24. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(24, 15, 120)

(21, 19, 133)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(a) (33, 10, 170) (b) (18, 16, 99)
(c) (31, 9, 96) (d) (27, 12, 108)

25. The question contains pairs of words that are related to each other in a certain way. Three of the following four word pairs are alike as these have the same relationship and thus form a group.

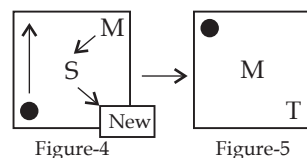
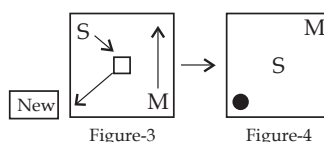
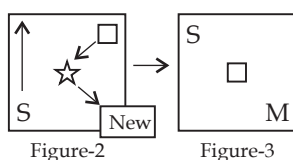
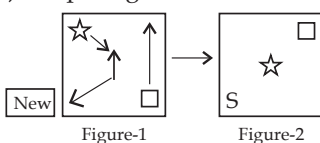
Which word pair is the one that DOES NOT belong to that group?

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters / number of consonants/vowels in the word.)

(a) Shoes - feet
(b) Book - pages
(c) Spectacles - lens
(d) Flowers - petals

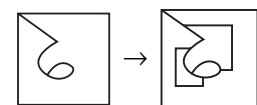
EXPLANATION

1. (d), As per figure,



So, correct answer is option (d).

2. (c), The given figure is embedded from -



So, correct answer is option (c).

3. (c), As per given information,

C	O	R	N	F	L	A	K	E	S	Original word
A	C	E	F	K	L	N	O	R	S	Arrange word