There is no limit to questions which can be asked on this topic but generally two to three questions are asked from this topic. The questions from this topic are based on common sense, therefore needs no special concepts to solve them. Just follow the instructions carefully to solve these questions.

Solved Examples

1. What letter occurs in EXERCISE and three times in EXTRAORDINARY?

(a)	E	(b) F
(a)	E	(d)

(d) I

Solution : (b)

Letter 'R' occurs once in EXERCISE and thrice in **EXTRAORDINARY**

2. If the first and the second letters in the word MISFORTUNE were interchanged, also the third and the fourth, the fifth and the sixth letters and so on, which letters would then be the eighth while counting to your left?

(a)	F	(c) U
(C)	0	(d) T

Solution : (a)

IMFSROUTEN, hence F. (Please note that, it said, counting to your left, not counting from your left.)

3. Two positions of a dice are shown below. Point out which number will be on the bottom if number 5 is on the top.



Solution: (c)

The faces adjacent to 2 are 1, 4, 3, 6. Hence, 5 is on the top when 2 is at the bottom.

4. Find the number which will come in place of the question mark.

	2B	3C	5B
	5C	8B	7A
	13A	9A	?
(a) 12A		(b) 8C
(c) 3C		(d) 18C

Solution : (b)

In each vertical column A, B and C are put in different boxes. The sum of numbers in these boxes vertically, is 20. Therefore, choice (b) is the correct answer.

5. The following question is based on letter series. In this question, some letters are missing. The missing letters are given in the proper sequence as one of the alternatives among the four given options. Mark the correct option.

baa -	-	aab	-	а	-	а	-	baa	
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(a) baba	(b) aabb
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(c) abba (d) abab

Solution : (a)

The grouping is baa / baa / baa / baa. Therefore, (a) is the correct option.

6. How many triangles are there in the following figure?



 $= 2 (6 + 4 + 2 + 1) = 2 \times 13 = 26.$

7. How many rectangles are there in the following figure?



Solution : (c)

Total number of rectangles = 7 + 8 + 2 + 2 = 19.

8. How many triangles are there in the following figure?



Number of triangles = 8 + 4 + 2 = 14.

Directions for examples 9 and 10: The following figure is a geometrical representation of a route map. Refer to this diagram and answer the following questions.



- **9.** If Nidhi drives from P to R via Q only, with a speed of 36 km/hr, then how much time will it take to reach R?
 - (a) 54 min (b) 1hr 30 min
 - (c) 2 hr 24 min (d) 1 hr 42 min
 - Solution: (b)

Distance from P to R via Q only

= 30 km + 24 km = 54 km.

:. Time =
$$\frac{54}{36}$$
 = 1.5 hr or 1hr 30 min.

10. If Amit completes a round trip by his bike from P, via Q, R, S and T in 4 hours, then what will be his average speed?

(a)	30 km/hr	(b) 32.5 km/hr
(C)	40 km/hr	(d) 37.5 km/hr

Solution : (d)

Total distance traveled by Amit from P, via Q, R, S and T = 30 + 24 + 18 + 52 + 26 = 150 km.

:. Speed =
$$\frac{150}{4}$$
 = 37.5 km/hr.

Directions for questions 11 to 13: Answer the following questions based on the given information.

A numerical machine accepts two values p and q. Then it updates p as pq + 3 and q as q + 2 at every step. The machine stops at $p \ge n$.

11. For p = 5, q = 3 and n = 250, how many minimum steps are performed before the machine stops?

(b)	3
	(b)

(c) 4	(d) 5
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Solution : (b)

At 1st step, $p = 5 \times 3 + 3 = 18$ and q = 3 + 2 = 5. At 2nd step, $p = 18 \times 5 + 3 = 93$ and q = 5 + 2 = 7. At 3rd step, $p = 93 \times 7 + 3 = 654$ and q = 7 + 2 = 9.

12. In the above question, what is the value of q?

(a) 5	(b)	7
(c) 9	(d)	14

Solution : (c)

13. In the above question, if the value of n is changed to 800, then what would be the final value of p?

(a)	800	(b)	654
(C)	854	(d)	5889
Solution : (d)			
At 4th step, $p = 654 \times 9 + 3 = 5889$ and			

q = 9 + 2 = 11.

Directions for examples 14 and 15: Digits do not carry their value, but allotted artificial value. Their artificial values are allotted according to some pattern. Examine the figures and values and write correct answer.

14. If $4 \times 5 = 2516$
 $6 \times 7 = 4936$
 $2 \times 3 = 0904$

 then, $5 \times 8 = ?$

 (a) 2564
 (b) 1610

 (c) 6425
 (d) 165

Solution : (c) 5 × 8 = 6425 **16.** HJLN:ILOR::KMOQ:? i.e. first write square of second number, then write (a) LORU square of first number. (c) MPRU **15.** If 6 + 4 = 20 Solution : (a) 8 + 3 = 22 H(8) + 1 = I(9)9 + 5 = 28 J(10) + 2 = L(12)then, 7 + 9 = ?L(12) + 3 = O(15)(a) 16 N(14) + 4 = R(18)(b) 32 Similarly, (c) 8 K(11) + 1 = L(12)(d) 48

Solution : (b)

7 + 9 = 32 i.e. sum of numbers $\times 2$. (b) LORT (d) MPTR

M(13) + 2 = O(15)O(15) + 3 = R(18)

Q(17) + 4 = U(21).

Exercise

1. Which letter has the same number of letters before it, as S has after it?

(a) J	(b) I
()	(~).

- (c) H (d) G
- 2. If you take all the vowels out of the alphabet, what would be the middle letter of those left?

(a) M	(b) N
(c) P	(d) Q

3. If the first 7 letters of the alphabet were moved and placed exactly above the last 7 letters, which letters would be exactly above W?

(a) F	(h) D
(a) E	(U) D

- (c) C (d) F
- 4. Suppose the first and the second letters of INDISCRIMINATION were interchanged. Also the third and the fourth letters, the fifth and the sixth, etc. Find out the eleventh letter from the left.

(a) A	(b) N
(c) M	(d) I

5. Count each X in this series that is followed by Y next to it such that Y is not followed by I next to it. How many such Xs can you count?

XYIKXYNIXIYXYKXYIXYMXYI

(a) 3	(b) 4
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- (c) 5 (d) 6
- 6. In the alphabet, which letter is 15th to the right of the letter which is 3rd to left of 'J'?
 - (a) U (b) V (c) W (d) X
- 7. How many c's are there at odd numbered places in the following series?

 ${\tt caccbcacbcacbcacbcccbccabc}$

(b)	3
	(b)

- (c) 4 (d) 6
- 8. Three different views of a cube are given below. Point out what number is opposite to 2?



- 9. There are five books: A, B, C, D and E. C lies above D; E is below A; D is above A; B is below E. Which is at the bottom?
 - (a) E (b) B
 - (c) A (d) C
- The result of a class was declared. The boy X stood 5th in the class. The girl Y was 8th from the last. The position of the boy Z was 6th after X. Work out the total number of students in the class.

(a) 23	(b) 24
(c) 25	(d) 26

11. Find the missing number.



12. Find the missing number.

	18	27	75
	41	60	19
	45	45	?
(a) 20		(t	o) 30
(c) 15		(0	d) 35

13. Three of the four words of the following questions belong to the same group or class. Pick the one that does not belong the group.

(a) Chair	(b) Sofa
	• •

(c) Bench (d) Couch

- 14. In the given question some numbers are given in rows (a), (b), (c), (d). In these rows the numbers are related to each other accordingly to the same pattern while the numbers in one row follow a different pattern. Identify that row.
 - (a) 0.5, 1.5, 1, 2.5
 - (b) 0.6, 1.2, 1, 4
 - (c) 0.25, 0.75, 0.5, 1.25
 - (d) 1, 3, 2, 5

- 15. In the question given below, if '+' sign is interchanged with '÷' sign, and number '16' is interchanged with number '4' and vice versa, then which one of the four equations would be correct?
 - (a) 4 + 16 ÷ 3 = 8
 - (b) 4 ÷ 16 + 16 = 18
 - (c) $16 \div 4 + 8 = 6$
 - (d) $4 + 16 \div 16 = 9$

Directions for questions 16 to 25: Read the given questions carefully and answer the questions independently.

16. If in the word 'EXTRAORDINARY', the letters are arranged in the alphabetical order then which of the following will be the fourth letter to the left of the third letter from left?

(a) N	(b) R

- (c) O (d) A
- 17. If the first, third, fourth and fifth letters of the word 'RESPONSIBILITY' are taken and arranged to form a meaningful word then which of the following will be the second letter of that meaningful word. If there is no such word then mark 'X'as the answer and if more than one such meaningful words are possible then mark 'M' as your answer.

1-			\sim
(a) P	(D)	Ο

- (c) M (d) X
- 18. If the fourth and sixth, eighth and ninth letters of the word 'EXTEMPORE' are taken and arranged to form a meaningful word then which of the following will be the third letter of that meaningful word. If there is no such word then mark 'X'as the answer and if more than one such meaningful words are possible then mark 'M' as your answer.

(a) R	(b) E
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- (c) M (d) X
- 19. If the first, second, fourth and eighth letters of the word 'OSTEOMALACIA' are taken and arranged to form a meaningful word then which of the following will be the fourth letter of that meaningful word. If there is no such word then mark 'X'as the answer and if more than one such meaningful words are possible then mark 'M' as your answer.
 - (a) E (b) O
 - (c) X (d) M

- 20. If the letters of the word BULLAMAKANKA are rearranged in the decreasing order of their positioning in the alphabets then which of the following will be the fourth letter to the left of the second letter to the right of the third letter from the right?
 - (a) L (b) K
 - (c) A (d) B
- 21. If the second, fifth, seventh and thirteenth letters of the word 'REPOSITIONING' are taken and arranged to form a meaningful word then which of the following will be the third letter of that meaningful word. If there is no such word then mark 'X'as the answer and if more than one such meaningful words are possible then mark 'M' as your answer.
 - (a) T (b) S (c) M (d) X
- 22. If the first half of the alphabet series is reversed and the second half of the series is kept as such then which of the following will be the fourth letter to the right of the third letter from the left of the series?

(a) K	(b) G
(c) D	(d) N

23. In an alphabet series, which of the following is the eighth letter to the right of the fifth letter from the left of the seventh letter to the left of the fifth letter from the right?

(a) G	(b) E
(u) C	(5) -

- (c) R (d) L
- 24. If the alphabet series is reversed then which of the following will be the third to the left of the sixth letter to the right of the third from the left of the series?

(a)	Х	(b)	U
	_		

- (c) R (d) I
- 25. If the second half of the alphabet series is reversed and the first half of the series is kept as such then which of the following will be the seventh letter to the left of the fifth letter to the right end?
 - (a) T (b) X
 - (c) Y (d) S

Directions for questions 26 to 35: Consider the following three figures, marked X, Y, Z showing one fold in X another in Y and cut in Z. From amongst the answer figures (a), (b), (c) and (d). Select the one showing the unfolded position of Z.







	Answer Key								
1. (c)	2. (b)	3. (b)	4. (a)	5. (a)	6. (b)	7. (c)	8. (C)	9. (b)	10. (a)
11. (a)	12. (b)	13. (a)	14. (b)	15. (c)	16. (c)	17. (d)	18. (b)	19. (a)	20. (d)
21. (b)	22. (b)	23. (c)	24. (b)	25. (c)	26. (c)	27. (d)	28. (c)	29. (b)	30. (d)
31. (b)	32. (a)	33. (a)	34. (d)	35. (c)					



A B C D E F G H I J K L M N O P Q R ST U V W X Y Z

D will be above W.

4. a After interchanging, INDISCRIMINATION will be

NIIDCSIRIMANITNO

↑

Eleventh letter from the left

5. a XYIKEYNIXIYEYKXYIEYMXYI

In all 3 such Xs are there.

6. b ABCDEFGHIJKLMNO ↓ 3rd to the left of J PQRSTUVWXYZ ↓15th to the right of G

7. c caccbcacbcacbcacbcccbccabc

- 8. c As 5 is common between the two figures and adjacent numbers to 5 are 1, 3, 4 and 5. Therefore, the number opposite to 2 will be 5.
- 9. b The sequence of books will be
 - С
 - D
 - А
 - Е
 - $B \leftarrow$ the book at the bottom
- 10. a The given information can be represented as follows.



Hence, there are 23 students in the class.

- 11. a The logic is that the middle number is the product of top two right-hand numbers. Similarly, 10 which is 5 × 2, will replace the question mark.
- 12. b The sum of the numbers in a row is equal to 120.

i.e. 18 + 27 + 75 = 45 + 75 = 120

41 + 60 + 19 = 79 + 41 = 120 Similarly, 45 + 45 + 30 = 120

Therefore, 30 should replace the question mark.

- 13. a 'Bench' as this is not part of the furniture. Therefore, it does not belong to the group.
- 14. b Every option follows the logic:

first term \times 1, first term \times 3, first term \times 2, first term \times 5 But (b) does not follow this logic.

15. c (c) is correct after applying all those rules,

i.e. $16 \div 4 + 8 = 6 \rightarrow 4 + 16 \div 8 = 6$.

16. c EXTRAORDINARY after rearrangement will be

AADEINORRRTXY. Fourth letter to the right of the third letter from the left will be O.

- 17. d The specific letters will be R, S P ,O and we can not have any meaningful word out of it. Hence, X is the answer.
- 18. b The specific letters will be E,P,R,E and the only meaningful word will be PEER, and the third letter of this meaningful word will be 'E'. Hence choice (b) will be the answer.
- 19. a The specific letters will be O,S, E,L and the meaningful word will be SOLE or LOSE and the fourth letter will be 'E' in both the cases. Hence choice (a) is the correct option.
- 20. d The new sequence will be UNMLLKKBAAAA

And the fourth letter to the left of the second letter to the right of the third letter from the right(the required letter will be 'B') Hence choice (d) is the correct option.

21. b The specific words are E,S,T and G and the meaningful word will be GEST. Obviously the third letter will be 'S' and hence choice (b) is the correct option.

- 22. b The new sequence will be M, L, K, J, I, H, G, F, E, D, C, B, A, N, O, P, Q, R, S, T, U, V, W, X, Y, Z and the required letter after following the instructions will be "G'.
- 23. c The alphabet series is A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and the required letter after following the instructions will be 'R' and hence choice (c) is the correct option.
- 24. b The new series is Z, Y, X, W, V, U, T, S, R, Q, P, O, N, M, L, K, J, I, H, G, F, E, D, C, B, A and 'U'is the letter we will arrive at after following the given instructions.

25. c A, B, C, D, E, F, G, H, I, J, K, L, M, Z, Y, X, W, V, U, T, S, R, Q, P, O, N. And the required letter following the instructions given in the question we get 'Y' as the answer.

For questions 26 to 35: There are no specific rules for solving these questions, use your imagination to arrive at the answers that is the best way out.

9.10