



Date : 22nd Nov 2023

Logical Reasoning - Arrangement & pattern

English

Direction 1 - 5 : Study the following alphanumeric series carefully and answer the question given below.

7 T 9 Y E 3 F 6 D 2 5 B 9 A 5 3 1

Q:1 Which letter is third to the right of seventh number from the right end?

1. A
2. D
3. B
4. E
5. Y

Q:2 How many letters are immediately preceded by a number and immediately followed by a letter?

1. 1
2. 2
3. 3
4. 4
5. 0

Q:3 Which element is sixth to the right of tenth element from the right end?

1. 2
2. 5
3. B
4. 9
5. A

Q:4 How many numbers are immediately followed by a letter?

1. 0
2. 2
3. 10
4. 7
5. 6

Q:5 How many letters are immediately followed by number?

1. 6
2. 5
3. 4
4. 8
5. 2

Direction 6 - 10 : Read the given information carefully and answer the following questions.

5 2 7 3 1 9 2 4 2 6 3 1 6 8 5 3 9 2 2 6 8 2 7 3 5

Q:6 What is the middle number in the given series?

1. 1
2. 8
3. 6
4. 3
5. None of these

Q:7 How many even numbers are there which are immediately followed by an even number itself?

1. Five
2. Eight
3. Nine
4. Six
5. None of these

Q:8 What is the product of the numbers between eighth number from the left end and eleventh number from the right end?

1. 216
2. 1827
3. 621
4. 1278
5. None of these

Q:9 How many perfect cubes are there in the given series which are immediately followed and preceded by an odd number?

1. Four
2. One
3. Three
4. None
5. None of these

Q:10 If one is added to all the even numbers and one is subtracted from all the odd numbers then how many perfect squares will be there in the given series?

1. Five
2. Six
3. Four
4. More than four
5. None of these



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Answer Key

1. (1)	2. (1)	3. (5)	4. (5)	5. (1)
6. (3)	7. (2)	8. (5)	9. (2)	10. (4)

Answers and Solutions

Q:1 The correct answer is **Option 1** i.e. **A**

Given series: 7 T 9 Y E 3 F 6 D 2 5 B 9 A 5 3 1

7th number from the right end = 6

3rd letter to the right of 6 = A

Hence, the correct answer is **A**.

Q:2 The correct answer is **Option 1** i.e. **1**

Given series: 7 T 9 Y E 3 F 6 D 2 5 B 9 A 5 3 1

There is only one letter that is immediately preceded by a number and immediately followed by a letter.

Hence, the correct answer is **1**.

Q:3 The correct answer is **Option 5** i.e. **A**

Given series: 7 T 9 Y E 3 F 6 D 2 5 B 9 A 5 3 1

6th to the right of 10th element from the right end = (10 - 6)th element from the right = 4th element from the right = **A**

Hence, **A** is the correct answer.

Q:4 The correct answer is **Option 5** i.e. **6**

Given series: 7 T 9 Y E 3 F 6 D 2 5 B 9 A 5 3 1

There are 6 numbers that are immediately followed by a letter: 7T, 9Y, 3F, 6D, 5B, 9A

Hence, the correct answer is **6**.

Q:5 The correct answer is **Option 1** i.e. **6**

Given series: 7 T 9 Y E 3 F 6 D 2 5 B 9 A 5 3 1

There are 6 letters that are followed by the number: T9, E3, F6, D2, B9, A5

Hence, the correct answer is **6**.

Q:6 The correct answer is **Option 3** i.e. **6**

Given series:

5 2 7 3 1 9 2 4 2 6 3 1 6 8 5 3 9 2 2 6 8 2 7 3 5

Middle number in the given series:

5 2 7 3 1 9 2 4 2 6 3 1 6 8 5 3 9 2 2 6 8 2 7 3 5

Hence, the correct answer is **6**.

Q:7 The correct answer is **Option 2** i.e. **Eight**

Given series:

5 2 7 3 1 9 2 4 2 6 3 1 6 8 5 3 9 2 2 6 8 2 7 3 5

Even numbers which are immediately followed by an even number itself:

5 2 7 3 1 9 2 4 2 6 3 1 6 8 5 3 9 2 2 6 8 2 7 3 5
(2, 4), (4, 2), (2, 6), (6, 8), (2, 2), (2, 6), (6, 8), (8, 2)

Eight such numbers are there in the given series.

Hence, the correct answer is **Eight**.

Q:8 The correct answer is **Option 5** i.e. **None of these**

Given series:

5 2 7 3 1 9 2 4 2 6 3 1 6 8 5 3 9 2 2 6 8 2 7 3 5

Product of the numbers between eighth number from the left end and eleventh number from the right end:

5 2 7 3 1 9 2 4 2 6 3 1 6 8 5 3 9 2 2 6 8 2 7 3 5

=> $2 \times 6 \times 3 \times 1 \times 6 \times 8 = 1728$

Hence, the correct answer is **None of these**.

Q:9 The correct answer is **Option 2** i.e. **One**

Given series:

5 2 7 3 1 9 2 4 2 6 3 1 6 8 5 3 9 2 2 6 8 2 7 3 5

Perfect cubes which are immediately followed and preceded by an odd number:

5 2 7 3 1 9 2 4 2 6 3 1 6 8 5 3 9 2 2 6 8 2 7 3 5

One such number is there in the given series.

Hence, the correct answer is **One**.

Q:10 The correct answer is **Option 4** i.e. **More than four**

Given series:

5 2 7 3 1 9 2 4 2 6 3 1 6 8 5 3 9 2 2 6 8 2 7 3 5

If one is added to all the even numbers and one is subtracted from all the odd numbers:

4 3 6 2 0 8 3 5 3 7 2 0 7 9 4 2 8 3 3 7 9 3 6 2 4

Five such numbers are there in the given series.

Hence, the correct answer is **More than four**.