

**12.Logical Series**

**Directions (Q. 1-6):** In each of the following questions, two rows of numbers are given. The resultant numbers are given. The resultant number in each row is to be worked out separately based on the following rules and the questions below the rows of numbers are to be answered. The operations of numbers progress from the left to right.

**Rules:**

- i) If an odd number is followed by another composite odd number, they are to be added
- ii) If an even number is followed by an odd number they are to be added.
- iii) If an even number is followed by a number which is the perfect square, the even number is to be subtracted from the perfect square.
- iv) If an odd number is followed by a prime odd number the first number is to be divided by the second number.
- v) If an odd number is followed by an even number, the second one is to be subtracted from the first number.

1. 15 8 21

P 3 27

If 'P' is the resultant of the first row, what will be the resultant of second row?

1.58 2.76 3.27 4.82 5.None of these

2. 12 64 17

20 m 16

If 'm' is the resultant of the first row, what will be the resultant of second row?

1.69 2.85 3.101 4.121 5.None of these

3. 85 17 35

16 19 r

If 'r' is the resultant of the first row, what will be the resultant of second row?

1.175 2.-5 3.75 4.210 5.None of these

4. 24 15 3

d 6 15

If 'd' is the resultant of the first row, what will be the resultant of second row?

1.37 2.8 3.22 4.29 5.None of these

5. 28 49 15

h 3 12

If 'h' is the resultant of the first row, what will be the resultant of second row?

1.13 2.15 3.19 4.27 5.None of these

6. 36 15 3

12 3 n

If 'n' is the resultant of the first row, what will be the resultant of second row?

1.  $\frac{15}{17}$  2. 32 3.  $\frac{12}{17}$  4. 36 5. None of these

**Directions (Q. 7-11):** In each of the following questions, two rows of numbers are given. The resultant numbers are given. The resultant number in each row is to be worked out separately based on the following rules and the questions below the rows of numbers are to be answered. The operations of numbers progress from the left to right.

**Rules:**

- i) If a two-digit even number is followed by another even number, the first one is to be divided by the second one
- ii) If an even number is followed by a prime number, the two are to be multiplied.
- iii) If an odd number is followed by another odd number, the two are to be added.
- iv) If three-digit number is followed by a two-digit number which is perfect square, the number is to be subtracted from the first number.
- v) If three-digit number is followed by a two-digit number which is not a perfect square, the first number is to be divided by the second number.

7. 16 7 25

m 23 22

If 'm' is the resultant of the first row, what will be the resultant of second row?

1. 132 2. 88 3. 122 4. 78 5. None of these

8. 97 45 71

48 8 11

what is the sum of the resultants of the two rows?

1. 68 2. 19 3. 147 4. 64 5. None of these

9. 125 64 33

282 x 39

If 'x' is the resultant of the first row, what will be the resultant of second row?

1. 45 2. 42 3. 39 4. 36 5. None of these

10. 84 14 13

360 24 17

what is the difference between the resultants of the first row and the second row?

1.100    2.46    3.56    4.90    5.None of these

11.24    7    81

x    27    19

If 'x' is the resultant of the first row, what will be the resultant of second row?

1.87    2.114    3.4    4.6    5.None of these

**Directions (Q. 12-14):** Following questions are based on the five numbers given below:

**851    743    624    319    298**

12.If the positions of the first and the third digits in each of the above numbers are interchanged, which of the following will be the third highest number?

1.851    2.743    3.624    4.319    5.298

13.If the position of the first and second digits in each of the above numbers is interchanged, which of the following will be the second highest number?

1.851    2.743    3.624    4.319    5.298

14.If the position of the second and the third digits in each of the above numbers are interchanged, which of the following will be the second smallest number?

1.851    2.743    3.624    4.319    5.298

**Directions (Q. 15-19):** Following questions are based on the five numbers given below:

**129    642    921    476    308**

15.Which of the following numbers will be obtained if the second digit of the lowest number is added to the third digit of the highest number after adding 4 to each number?

1.5    2.6    3.7    4.8    5.None of these

16.If the digits in each of the five numbers are arranged in descending order, the position of how many numbers will not change?

1.None    2.One    3.Two    4.Three    5.Four

17.Based upon the given set of numbers, four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

1.647    2.264    3.912    4.192    5.380

18.If in each number, the digits are arranged in ascending order, what will be sum of middle digits of each of the numbers?

1.14    2.12    3.26    4.9    5.None of these

19.If in each number, the first and the last digits are interchanged, which will be the second lowest number?

1.129    2.642    3.921    4.476    5.308

**Answers:**

1.1    2.5    3.2    4.3    5.4    6.1    7.5    8.1    9.2    10.2    11.4    12.3  
13.1 14.4    15.4    16.1    17.2    18.3    19.1

