

Quantitative Aptitude Practice questions on Number System- Remainders:

1. The sum of the digits of a number N is 23. The remainder when N is divided by 11 is 7. What is the remainder when N is divided by 33?

- A. 7
- B. 29
- C. 16
- D. 13

2. What is the remainder when $(13^{100} + 17^{100})$ is divided by 25?

- A. 0
- B. 2
- C. 4
- D. 11

3. A number when divided by 18 leaves a remainder 7. The same number when divided by 12 leaves a remainder n . How many values can n take?

- A. 2
- B. 0
- C. 1
- D. 3

4. N leaves a remainder of 4 when divided by 33, what are the possible remainders when N is divided by 55?

- A. 3
- B. 5
- C. 4
- D. 2

5. What is the remainder when we divide $3^{90} + 5^{90}$ by 34?

- A. 0
- B. 17
- C. 33
- D. 1

6. N^2 leaves a remainder of 1 when divided by 24. What are the possible remainders we can get if we divide N by 12?

- A. 1, 5, 7 and 11
- B. 1 and 5
- C. 5, 9, and 11
- D. 1 and 11

7. A prime number p greater than 100 leaves a remainder q on division by 28. How many values can q take?

- A. 8
- B. 12
- C. 9
- D. 15

8. How many positive integers are there from 0 to 1000 that leave a remainder of 3 on division by 7 and a remainder of 2 on division by 4?

- A. 32
- B. 36
- C. 24
- D. 19

9. Three numbers leave remainders of 43, 47 and 49 on division by N . The sum of the three numbers leaves a remainder 9 on division by N . What are the values N can take?

- A. 65
- B. 96

C. 125

D. More than one value is possible

10. A number leaves a remainder 3 on division by 14, and leaves a remainder k on division by 35.

How many possible values can k take?

A. 3

B. 2

C. 5

D. 4

Answer Key –

Q.No.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Ans.	(B)	(B)	(A)	(B)	(A)	(A)	(B)	(B)	(D)	(C)