



NUMBER SYSTEM-2_QUESTIONS

1. Which of the following can't be the unit digit of a perfect square?
(A) 4 (B) 8
(C) 9 (D) 6
2. What is the unit digit of $71 \times 72 \times 73 \times 75 \times 79$?
(A) 9 (B) 1
(C) 0 (D) 7
3. What is the unit digit of the sum of first 111 whole numbers?
(A) 4 (B) 6
(C) 5 (D) 0
4. Find the unit place of $\frac{12^{55}}{3^{11}} + \frac{8^{48}}{16^{18}}$
(A) 5 (B) 7
(C) 9 (D) 0
5. What is the unit digit of 2^{51} ?
(A) 2 (B) 8
(C) 1 (D) 4
6. Find the last digit of 32^{32} ?
(A) 2 (B) 8
(C) 6 (D) 4
7. Find the number of zeroes at the end of $400!$
(A) 23 (B) 98
(C) 99 (D) 76
8. Find the number of zeroes at the end of the product $1^1 \times 2^2 \times 3^3 \times 4^4 \times \dots \times 10^{10}$
(A) 5 (B) 10
(C) 20 (D) 15
9. Find the number of zeroes at the end of $2 \times 4 \times 6 \times 8 \times \dots \times 360$?
(A) 20 (B) 44
(C) 38 (D) 180
10. Find the number of zeroes at the end of the product $10^1 \times 10^2 \times 10^3 \times 10^4 \times \dots \times 10^{10}$
(A) 50 (B) 40
(C) 55 (D) 45
11. Find the no. of zeroes at the end of the product of $2^{222} \times 5^{555}$.
(A) 555 (B) 222
(C) 777 (D) 333
12. When a number is divided by 387, the remainder is 48. What will be the remainder when it is divided by 43?
(A) 0 (B) 5
(C) 3 (D) 35
13. The least number which must be added to 2055 to make it exactly divisible by 27 is:
(A) 28 (B) 24
(C) 27 (D) 31
14. If $78*3945$ is divisible by 11, where * is a digit then * is equal to:
(A) 1 (B) 3
(C) 0 (D) 5
15. Two numbers, when divided by 17, leaves remainder 13 and 11 respectively. If the sum of those two numbers is divided by 17, the remainder will be:
(A) 13 (B) 11
(C) 7 (D) 4
16. Which of the following number will always divide a six-digit number of the form $xyxyxy$ (where $1 \leq x \leq 9, 1 \leq y \leq 9$)?
(A) 1010 (B) 10101
(C) 11011 (D) 11010
17. What is the remainder when $23^3 + 31^3$ is divided by 54?
(A) 0 (B) 3
(C) 1 (D) 4



18. $(2^{71} + 2^{72} + 2^{73} + 2^{74})$ is divisible by:
(A) 10 (B) 9
(C) 13 (D) 11
19. How many numbers are there from 200 to 800 which are divisible by neither 5 nor 7?
(A) 410 (B) 413
(C) 407 (D) 411
20. If a nine-digit number $985x3678y$ is divisible by 72, then the value of $(4x - 3y)$ is:
(A) 5 (B) 4
(C) 6 (D) 3

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