

## NUMBER SYSTEM

1. The product of the place values of two 2's in 428721 is  
(A) 4      (B) 40000      (C) 400000      (D) 40000000
2.  $3 \times 10000 + 7 \times 1000 + 9 \times 100 + 0 \times 10 + 4$  is the same as  
(A) 3794      (B) 37940      (C) 37904      (D) 379409
3. If 1 is added to the greatest 7- digit number, it will be equal to  
(A) 10 thousand      (B) 1 lakh      (C) 10 lakh.      (D) 1 crore
4. The expanded form of the number 9578 is  
(A)  $9 \times 10000 + 5 \times 1000 + 7 \times 10 + 8 \times 1$       (B)  $9 \times 1000 + 5 \times 100 + 7 \times 10 + 8 \times 1$   
(C)  $9 \times 1000 + 57 \times 10 + 8 \times 1$       (D)  $9 \times 100 + 5 \times 100 + 7 \times 10 + 8 \times 1$
5. When rounded off to nearest thousands, the number 85642 is  
(A) 85600      (B) 85700      (C) 85000      (D) 86000
6. The largest 4-digit number, using any one digit twice, from digits 5, 9, 2 and 6 is  
(A) 9652      (B) 9562      (C) 9659      (D) 9965
7. In Indian System of Numeration, the number 58695376 is written as  
(A) 58.69, 53, 76      (B) 58,695,376      (C) 5.86.95,376      (D) 586.95.376
8. One million is equal to  
(A) 1 lakh      (B) 1 crore.      (C) 10 lakh      (D) 10 crore
9. The greatest number which on rounding off to nearest thousands gives 5000, is  
(A) 5001      (B) 5559      (C) 5999      (D) 5499
10. Keeping the place of 6 in the number 6350947 same, the smallest number obtained by rearranging other digits is  
(A) 6975430      (B) 6043579      (C) 6034579      (D) 6034759
10. Which of the following numbers in Roman numerals is incorrect?  
(A) LXXX      (B) LXX      (C) LX      (D) LLX
11. The largest 5-digit number having three different digits is  
(A) 98978      (B) 99897      (C) 99987      (D) 98799
12. The smallest 4-digit number having three different digits is

- (A) 1102      (B) 1012      (C) 1020      (D) 1002
14. Number of whole numbers between 38 and 68 is
- (A) 31      (B) 30.      (C) 29      (D) 28
15. The product of successor and predecessor of 999 is
- (A) 999000      (B) 998000      (C) 989000      (D) 1998
16. The product of a non-zero whole number and its successor is always
- (A) an even number      (B) a prime number      (C) an odd number      (D) divisible by 3
17. A whole number is added to 25 and the same number is subtracted from 25. The sum of the resulting numbers is
- (A) 0      (B) 25      (C) 50      (D) none
18. Which of the following is not true?
- (A)  $(7 + 8) + 9 = 7 + (8 + 9)$       (B)  $(7 \times 8) \times 9 = 7 \times (8 \times 9)$   
 (C)  $7 + 8 \times 9 = (7 + 8) \times (7 + 9)$       (D)  $7 \times (8 + 9) = (7 \times 8) + (7 \times 9)$
19. By using dot (·) patterns, which of the following numbers can be arranged in all the three ways namely a line, a triangle and a rectangle?
- (A) 9      (B) 10      (C) 11      (D) 12
20. Which of the following statements is not true?
- (A) Both addition and multiplication are associative for whole numbers.  
 (B) Zero is the identity for multiplication of whole numbers.  
 (C) Addition and multiplication both are commutative for whole numbers.  
 (D) Multiplication is distributive over addition for whole numbers
21. Which of the following statements is not true?
- (A)  $0 + 0 = 0$       (B)  $0 - 0 = 0$       (C)  $0 \times 0 = 0$       (D)  $0 = 0 = 0$
22. The predecessor of 1 lakh is
- (A) 99000      (B) 99999      (C) 999999      (D) 100001
23. The successor of 1 million is
- (A) 2 millions      (B) 1000001      (C) 100001      (D) 10001
24. Number of even numbers between 58 and 80 is
- (A) 10      (B) 11      (C) 12      (D) 13
25. Sum of the number of primes between 16 to 80 and 90 to 100 is
- (A) 20      (B) 18      (C) 17      (D) 16

26. Which of the following statements is not true?

- (A) The HCF of two distinct prime numbers is
- (B) The HCF of two co prime numbers is 1
- (C) The HCF of two consecutive even numbers is 2
- (D) The HCF of an even and an odd number is even.

27. The number of distinct prime factors of the largest 4-digit number is

- (A) 2
- (B) 3
- (C) 5
- (D) 11

28. The number of distinct prime factors of the smallest 5-digit number is

- (A) 2
- (B) 4
- (C) 6
- (D) 8

29. If the number  $7254*98$  is divisible by 22, the digit at is

- (A) 1
- (B) 2
- (C) 6
- (D) 0

30. The largest number which always divides the sum of any pair of consecutive odd numbers is.

- (A) 2
- (B) 4
- (C) 6
- (D) 8

31. A number is divisible by 5 and 6. It may not be divisible by to 100 is

- (A) 10
- (B) 15
- (C) 30
- (D) 60

32. The sum of the prime factors of 1729 is

- (A) 13.
- (B) 19
- (C) 32
- (D) 39

33. The greatest number which always divides the product of the predecessor and successor of an odd natural number other than 1 of

- (A) 6
- (B) 4
- (C) 16.
- (D) 8

34. The number of common prime factors of 75, 60, 105 is

- (A) 2
- (B) 3
- (C) 4
- (D) 5

35. Which of the following pairs is not co-prime?

- A) 8, 101
- (B) 11, 121
- (C) 1,3
- (D) 3, 33

36. Which of the following numbers divisible by 11?

- (A) 1011011
- (B) 1111111
- (C) 2222222
- (D) none

37. LCM of 10, 15 and 20 is

- (A) 30
- (B) 60
- (C) 90
- (D) 180

38. LCM of two numbers is 180. Then which of following is not the HCF of the numbers?

- (A) 45
- (B) 60
- (C) 75
- (D) 90

