

IBRAIN

Jawahar Navodaya Vidyalaya Entrance Test — Ch1 - Number Systems - Test 01

Chapter 1: Number Systems

Total Questions: 20

Duration: 30 minutes

Total Marks: 20

Subject: Mathematics

Name:

SECTION A (Q. No 1 to 20)

Q.1. A pair of twin prime number between 70 and 100 is:

- (a) 71, 73 (b) 79, 83 (c) 97, 99 (d) 87, 89

Q.2. All natural numbers and 0 are called as _____ Numbers.

- (a) Rational (b) Integers (c) Whole (d) Prime

Q.3. Which of the numbers are twin prime?

- (a) (5, 7) (b) (18, 25) (c) (11, 17) (d) (23, 62)

Q.4. The smallest natural number is:

- (a) 0 (b) -1 (c) 2 (d) 1

Q.5. Which of the following numbers are co-prime?

- (a) (14, 35) (b) (18, 25) (c) (31, 93) (d) (23, 69)

Q.6. Which is the smallest number that must be added to 432 to make it a multiple of 10?

- (a) 8 (b) 2 (c) 10 (d) 0

Q.7. How many even numbers are there from 1 to 100?

- (a) 49 (b) 50 (c) 51 (d) 100

Q.8. Sumit reads 15 pages of a book every day. The book has 195 pages. In how many days will he finish reading the book?

- (a) 12 (b) 13 (c) 14 (d) 15

Q.9. If you multiply the largest 2-digit number by the smallest 2-digit prime number, what is the product?

- (a) 990 (b) 1089 (c) 1188 (d) 198

Q.10. A square garden has a perimeter of 200 m. What is the length of one side of the garden?

- (a) 20 m (b) 40 m (c) 50 m (d) 100 m

Q.11. Find the largest number which can be formed by rearranging the digits 3, 8, 7, 9.

- (a) 8973 (b) 9873 (c) 9783 (d) 3789

Q.12. What is the next prime number strictly after 100?

- (a) 101 (b) 103 (c) 107 (d) 109

Q.13. Evaluate the highest common factor (HCF) of 24 and 32.

- (a) 2 (b) 4 (c) 6 (d) 8

Q.14. The smallest number of four digits whose each digit is different is:

- (a) 1000 (b) 1023 (c) 1032 (d) 1230

Q.15. The difference between the greatest and the least number that can be written using the digits 6, 2, 7, 4, 3, each only once, is evaluated as:

- (a) 52965 (b) 53965 (c) 52956 (d) 52659

Q.16. Find a 4-digit number, formed by different digits, in which 9 is specifically located at the tens place, and the number is the smallest possible.

- (a) 1092 (b) 1290 (c) 2091 (d) 2190

Q.17. There are XC students in Class 8th. XL students are absent today. Evaluate how many students are present (in Roman numerals).

- (a) L (b) XL (c) LX (d) X

Q.18. If the sum of its digits is subtracted from a number, the resulting number will always be completely divisible by:

- (a) 3 (b) 6 (c) 9 (d) 5

Q.19. Ram, Rahul, and Rohit shared a bag of marbles equally. The bag had 272 marbles. How many marbles were left over?

- (a) 90 (b) 91 (c) 9 (d) 2

Q.20. The predecessor of 10,001 evaluates to:

- (a) 9,999 (b) 10,000 (c) 9999 (d) 10,002

