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Chapter – 5 | Prime Time

QUIZ-01

1. Numbers which have exactly two factors are called:
   A. Composite numbers
   B. Co-prime numbers
   C. Prime numbers
   D. Even numbers (C)

Explanation : Prime numbers have only two factors: 1 and the number itself.

2. Which of the following numbers is neither prime nor composite?
   A. 2
   B. 1
   C. 9
   D. 15 (B)

Explanation : The number 1 has only one factor, so it is neither prime nor composite.

3. Which of the following is a composite number?
   A. 13
   B. 17
   C. 21
   D. 19 (C)

Explanation : 21 has more than two factors, so it is a composite number.

4. The common factors of 20 and 28 are:
   A. 1, 2
   B. 1, 4
   C. 1, 2, 4
   D. 2, 4, 8 (C)

Explanation : 1, 2 and 4 divide both 20 and 28 exactly.

5. Which pair of numbers is co-prime?
   A. 15 and 39
   B. 18 and 35
   C. 20 and 50
   D. 21 and 49 (B)

Explanation : 18 and 35 have no common factor other than 1.

6. The prime factorisation of 56 is:
   A. 2 × 28 B. 4 × 14
   C. 2 × 2 × 2 × 7 D. 7 × 8 (C)

Explanation : Prime factorisation expresses a number as a product of only prime numbers.

7. Which of the following numbers is the product of exactly three distinct prime numbers?
   A. 45
   B. 60
   C. 91
   D. 105 (D)

Explanation : 105 = 3 × 5 × 7, which are three different prime numbers.

8. Which of the following numbers is divisible by both 4 and 5?
   A. 120
   B. 130
   C. 150
   D. 180 (A)

Explanation : A number divisible by both 4 and 5 must be divisible by 20.

9. Using divisibility rules, which number is divisible by 8?
   A. 234
   B. 512
   C. 726
   D. 915 (B)

Explanation : A number is divisible by 8 if its last three digits are divisible by 8.

10. The smallest number that is a multiple of all numbers from 1 to 10 is:
   A. 360
   B. 720
   C. 2520
   D. 5040 (C)

Explanation : 2520 is the least common multiple of the numbers from 1 to 10.

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