LIVE WORK SHEET - 1

STD : X TEST- 3 SUBJECT : MATHS

CHAPTER – 2 [NUMBERS and SEQUENCES] NAME:

I Choose the Correct answer: DATE:

1. Euclid's division lemma states that for positive integers a and b, there exist unique integers q and r such that $a = bq + r$, where r must satisfy.

   A) $1 < r < b$ (B) $0 < r < b$ (C) $0 \le r < b$ (D) $0 < r \le b$

2. Using Euclid's division lemma, if the cube of any positive integer is divided by 9 then the possible remainders are

   (A) 0, 1, 8 (B) 1, 4, 8 (C) 0, 1, 3 (D) 1, 3, 5

3. If the HCF of 65 and 117 is expressible in the form of $65m - 117$, then the value of m is

   (A) 4 (B) 2 (C) 1 (D) 3

4. The sum of the exponents of the prime factors in the prime factorization of 1729 is

   (A) 1 (B) 2 (C) 3 (D) 4

5. The least number that is divisible by all the numbers from 1 to 10 (both inclusive) is

   (A) 2025 (B) 5220 (C) 5025 (D) 2520

6. Given $F_1 = 1,\ F_2 = 3$ and $F_n = F_{n-1} + F_{n-2}$ then F_5 is

   (A)3 (B)5 (C)8 (D)11

7. The first term of an arithmetic progression is unity and the common difference is 4. Which of the following will be a term of this A.P.

   (A) 4551 (B) 10091 (C) 7881 (D) 13531

8. What is the HCF of the least prime number and the least composite number?

   (A)2 (B)1 (C)4 (D)3

9. If "a" and " b" are two positive integers where a>b and "b" is a factor of :a" then HCF of (a,) is

   (A)b (B)a (C)ab (D)$\frac{a}{b}$

10. If m and n are co-prime numbers, then m^2 and n^2 are

    (A)co-prime (B) not co-prime (C)even (D) odd

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