

LIVE WORK SHEET - 1

STD : X

TEST- 3

SUBJECT : MATHS

CHAPTER – 2 [NUMBERS and SEQUENCES]

NAME:

I Choose the Correct answer:

DATE:

- 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) $0 \leq r < b$ (D) $0 < r \leq b$
- 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
- 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
- The sum of the exponents of the prime factors in the prime factorization of 1729 is
(A) 1 (B) 2 (C) 3 (D) 4
- 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
- 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
- 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
- What is the HCF of the least prime number and the least composite number?
(A) 2 (B) 1 (C) 4 (D) 3
- 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) $\frac{a}{b}$
- 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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