

CLASS TEST-02
CHAPTER SEQUENCE & SERIES (D.O.E.-15/05/2026)
XI-A,B & D

MM- 15

TIME-30 MIN

- (1) If A & G are respectively the A. M. & G. M. between two positive numbers a and b , then prove that $A > G$.
- (2) Find the sum of the series $0.3 + 0.33 + 0.333 + \dots$ to n terms.
- (3) Prove that the sum of n A. M.'s between two numbers is n times the single A. M. between them.
- (4) In an increasing G. P. the sum of the first and last term is 66, the product of the second and the last but one is 128 and the sum of the terms is 126. How many terms are there in the progression?
- (5) The sum of an infinite G. P. is 57 and the sum of their cubes is 9747, find the G. P.