

RAGHONATHPUR COLLEGE

SEM - V INTERNAL EXAMINATION - 2020

COURSE CODE :- BMTMDSHT2

COURSE TITLE :- DSE-2: MECHANICS I

Answer any one question

- (a) (i) Find the M.I of a solid right circular cone about its axis. 5
- (ii) State D'Alembert's Principle. 2
- (iii) Define Body forces and Contact forces. 3
- (b) (i) Find the M.I of a right circular cylinder about a straight line through its C.G. perpendicular to its axis. 5
- (ii) State the Principle of Virtual work for a system of connected rigid bodies. 2
- (iii) Define centre of mass, linear momentum and Angular momentum. 3