

Roll No.....

Name of the Course : Master of Physical Education (M.P.Ed.)
Paper No. : MPE-0902
Name of the Paper : Fundamentals of Sports Biomechanics
Semester : III (December 2025)
Duration : 03 Hours
Maximum Marks : 50

(Write your Roll No. on the top right side

Immediately on the receipt of this question paper)

Attempt any five questions. All questions carry equal mark

1. Discuss on work, power and mechanical energy with examples from Physical Education and sports. (10)
2. State and discuss the Law of Inertia, Law of moment of Inertia and Law of momentum with examples from Physical Education and sports. (10)
3. Define and explain speed, velocity, acceleration, uniform acceleration and momentum with suitable examples from physical education and sports. (10)
4. Explain the concept related to controlling balance during movements in physical education and sports activities. (10)
5. Explain the importance of Biomechanics in Physical Education and Sports. (10)
6. Give a biomechanical analysis of a game/sport technique of your choice. (10)
7. Write a note on structure of cyclic, acyclic motor action and combination of motor action with suitable examples. (10)
8. Write a note on applications of hydrodynamics in swimming. (10)