Your Roll No.....

Name of the course

Paper No.

Name of the paper

Semester

: Master of Physical Education (M. P. Ed.)

: MPE-0704(ii)

: Subject Specialization: Sports Biomechanics

: I-December-2024

Duration: 3 Hours

Maximum Marks: 50 Marks

Instructions for students

• Write your Roll No. on the top right side Immediately on the receipt of this question paper)

Attempt any five questions. All questions carries equal marks.

Q1. Write a note on blomechanical instrumentations with examples.

- Q2. Explain the concept of buoyancy and flotation, resistive forces in swimming skill, propulsive forces in swimming skill as well as swimming speed and efficiency.
- Q3.Explain the concept related to controlling balance during movements in physical education activities.
- Q4. Write a note on principal of initial force and conservation of angular momentum with suitable example.
- Q5.Define speed, velocity, acceleration, uniform acceleration and momentum (for both linear and angular motion) with suitable examples from physical education.
- Q6.Define friction and types of friction and explain their mechanical, advantages and disadvantages with special reference to physical education and sports applications.
- Q7. State and discuss on the law of angular momentum, law of action and reaction as well as law of action and reaction (angular motion).
- Q8. Write a note on structure of cyclic, acyclic motor action and combination of motor action with suitable examples.