Pall	No	
MON	140	

MASTER OF PHYSICAL EDUCATION M.P.Ed. SEMESTER-I

2023

MPE-0704(ii) Subject Specialization

Sports Biomechanics

Time: 3 Hours

Max 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

- Discuss on work, power, energy and their application with examples from physical education and sports.
- Define types of levers and explain their mechanical advantages and disadvantages with special reference to physical education and sports applications.
- 3. State and discuss the Law of inertia, Law of moment of inertia and Law of momentum in reference to their applications in physical education and sports.
- 4. Discuss observing and analyzing performance emphasizing on the nature of skills, overall performance, objective of skill and the analysis process of skill.
- 5. Define speed, velocity, acceleration, uniform acceleration, momentum and their applications with suitable examples from physical education and sports.
- 6. Define friction and types of friction and explain their mechanical advantages and disadvantages with special reference to physical education and sports applicants. 10
- 7. Explain the concept related to controlling balance during movement in physical education and sports activities.
- 8. Write a note on application of hydrodynamics in swimming performance. 10

