Serial No. 3154(ii)

Roll	No	
1/011	1	

MASTER OF PHYSICAL EDUCATION (M.P.Ed.) SEMESTER-IV-2018

Paper: MPE-1004(ii): Subject Specialization

Sports Biomechanics

Time: 3 Hrs.	Maximum Marks: 50			
(Write your Roll No. on the top right side immediately on receipt of this question paper)				
Note: Attempt any FIVE questions. All question carry equal marks.				
Q.1. Write a note on Mechanical Energy, Work and Efficiency	Emphasizing on: $(2.5X4=10)$			
 (a) Definition and Standard Unit (b) Limitations (c) Purpose for Measuring (d) Potential Uses for measurement of movement patterns. 				
Q.2. Discuss on Cinematography and Computerized Video Analysis emphasizing on the following: 10				
3-D Cinematography (Equipment Specifications, Calibration and Expected Reliability, other Consideration).				
Q.3. Explain Recommended procedure for Direct Measurement following:-	nt Techniques emphasizing on the			
Acclerometry (Equipment Specifications, Calibration Procedures and Expected Reliability)				
Q.4. Explain Recommended procedures related to Force Transducers emphasizing on the following:-				
Pressure Platforms (Design, Basic Consideration in Expected Reliability).	Design and Utilization, Procedures and			
Q.5. Write on the following with examples:-	7 : 10			
Body Segment and Total Body Energies and Mechan Specifications)	ical Work and Output. (Equipment			
Q.6. Give an introduction to isokinetic Measurement.	10			
Q.7. Give an introduction to Measurement and Applications in Gait Analysis.				
Q.8. Write an essay on Policy Statement regarding the use of human subject and informed consent. 10				