Reg. No.					



**MDS 552** 

## IV Semester M.P.Ed. Examination, September 2022 PHYSICAL EDUCATION Biomechanics and Kinesiology

Time: 3 Hours	Max. Marks	Max. Marks: 70				
Instructions :	1) Answer all questions.					
	2) Each answer shall not exceed six pages.					
	ning of the terms 'Kinematics', 'Acceleration' and 'Force'. Add a logram of forces.  OR	15				
Explain the var examples.	ious types of fundamental joint movements with suitable	15				
2. Explain the role with suitable ex	e of agonists, antagonists and synergists during muscle activity cample.  OR	15				
Write a note or a) Triceps brac b) Rectus femo						
c) Rectus abdo	ominus.	15				
3. Explain the fac	tors affecting horizontal range of projectile. OR	15				
Explain Newtor	ns laws of acceleration and reaction with suitable examples.	15				

MDS 552

4. What are the factors affecting stability? Explain with suitable examples.OR

Describe the kinesiological and biomechanical analysis of pace bowling in cricket.

5. Write short notes on any two of the following:

 $(5 \times 2 = 10)$ 

- a) Motor units
- b) Factors affecting force of muscle contraction.
- c) Projectile motion.
- d) Tools of movement analysis.

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