

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**B.P.Ed. DEGREE EXAMINATION – November 2019****Fourth Semester****KINESIOLOGY AND BIOMECHANICS**

Time: Three hours

Maximum: 75 marks

PART – A (10 x 2 = 20 marks)Answer any **TEN** questions. All questions carry equal marks.

1. State the meaning of kinesiology.
2. What is line gravity?
3. Define plane.
4. Name any two joint in the lower body.
5. What is displacement?
6. Define bio-mechanics.
7. Mention any two types of equilibrium.
8. List down the classification of lever.
9. What is throwing?
10. Mention any two fundamental movements.
11. Give any two types of plane.
12. What is couple?

PART – B (5 x 5 = 25 marks)Answer any **FIVE** questions. All questions carry equal marks.

13. Describe the role of kinesiology in Physical Education and Sport.
14. Discuss the classification of joints.
15. State the Newton's first and third laws of motion.
16. Narrate the factors influencing projectile trajectory.
17. Briefly explain the biomechanical analysis of running.
18. Define axis and explain its types.
19. Write short notes on angular kinematics.
20. Explain the biomechanical analysis of skill in any one of major game of your choice.

PART – C (3 x 10 = 30 marks)Answer any **THREE** questions. All questions carry equal marks.

21. Narrate the history and importance of kinesiology in Physical Education and Sports.
22. Write short notes on (a) All or none law (b) Angle of pull (c) Reciprocal Innervations.
23. Elaborate the need and importance of bio – mechanics in the field of physical education and sports.
24. Write an essay on lever.
25. Explain the biomechanical analysis of jumping in detail.