

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**B.P.Ed. DEGREE EXAMINATION – April 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. Define Kinesiology.
2. What is centre of gravity?
3. Name any two joints in the upper body.
4. Define axis.
5. What is Velocity?
6. State the meaning of bio-mechanics.
7. What is equilibrium?
8. Mention any two parts of lever.
9. What is jumping?
10. Write any two fundamental movements.
11. What is displacement?
12. What is line gravity?

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

13. Describe the importance of kinesiology in Physical Education and Sports.
14. Write short notes on all or none law.
15. Explain the need and importance of bio-mechanics in the field of Physical Education and sports.
16. Discuss the factors influencing projectile trajectory.
17. Briefly explain the biomechanical analysis of throwing.
18. Elaborate the history of kinesiology.
19. List down the various fundamental movements.
20. Write a note on linear kinetics.

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

21. Narrate the role of kinesiology in Physical Education and Sports.
22. Describe the joints and its classification.
23. Write an essay on linear kinematics.
24. State the Newton's laws of motion.
25. Explain the biomechanical analysis of running in detail.
