

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(Deemed to be University), SALEM**

**M.P.T. DEGREE EXAMINATION – November 2018
Second Semester**

BIO-MECHANICS AND KINESIOLOGY

Time: Three hours

Maximum : 100 marks

I. Write short answers on: (10 x 2 = 20)

1. Rotatory motion
2. Fibrous joint
3. Functional position of wrist and hand
4. Q angle of the knee joint
5. Hammer Toe deformity
6. Stair gait cycle
7. Coxa vara
8. Glenoid labrum
9. Ulnar collateral ligament
10. Compression injuries of elbow

II. Write short notes on: (8 x 5 = 40)

11. Typical lumbar vertebra
12. Scapulo humeral rhythm
13. Inferior radio ulnar joint
14. Locking mechanism of knee joint
15. Analysis of standing posture
16. Sub talar joint
17. Motions of patella
18. Acromio clavicular motions.

III. Write essays on: (2 x 20 = 40)

19. Describe the structure of gleno humeral joint. Add a note on static stabilization and dynamic stabilization of the gleno humeral joint.
20. Write in detail the anatomy of patella femoral joint with diagrams. Add a note on patella femoral joint stress and patella femoral pain.
