Sl.No : M21261 Course Code: 21119403

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

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION N OCTOBER - 2021

Fourth Semester

Biomechanics - II

Time: Three hours Maximum: 100 marks

I. Write Essays on:

 $(2 \times 15 = 30)$

- 1. Explain structure and Function of Knee joint & note about Locking and Unlocking?
- 2. Define Gait and Explain the Phases of Gait Cycle?

II. Write short Essays on:

 $(8 \times 5 = 40)$

- 3. Kinematics of Ribcage
- 4. Pelvic Tilt
- 5. Effects of Injury and disease in Tibiofemoral Joint.
- 6. Q angle and its importance.
- 7. Arches of foot.
- 8. Optimal posture in Sagittal plane.
- 9. Pathological gait.
- 10. Muscles of Hip Joint.

III. Write Short Answers on:

 $(3 \times 10 = 30)$

- 11. Cadence & stride length.
- 12. Postural deviations
- 13. Subtalar joint
- 14. Pesplanus & Pescavus
- 15. Menisci
- 16. Valgus & varus of Knee joint
- 17. Angle of Torsion
- 18. Inversion & Eversion of Ankle
- 19. Muscles of Respiration
- 20. Gravitational moments.