

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

**BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
OCTOBER - 2021
Third Semester**

BIOMECHANICS - I

Time: Three hours

Maximum : 100 marks

I. Write Essays on: (2 x 15 = 30)

1. Classification of Joint design and Sub classification of synovial joints.
2. Explain Static and dynamic stability of Glenohumeral joint.

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

3. Axes and Planes of motion
4. Length- Tension relationship of Muscle
5. Structure of Lumbar vertebrae.
6. Coracoacromial arch.
7. Supination Pronation of Forearm.
8. Active and Passive Insufficiency.
9. Describe Precision handling Grip.
10. Lumbo- Pelvic Rhythm.

III. Write Short Answers on: (3 x 10 = 30)

11. Types of Motion.
12. Levers and types of levers
13. Closed kinematic chain
14. Concentric and Eccentric contraction
15. Atypical vertebrae
16. Sternoclavicular disk
17. Carrying angle
18. Ligaments of wrist joint
19. Agonist and Synergist
20. Muscles of Elevation.