

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

**BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
August 2018
Second Year**

BIOMECHANICS AND KINESIOLOGY

Time: Three hours

Maximum: 100 Marks

Answer **ALL** questions.

I. ESSAY: (2 x 20 = 40)

1. Define joint. Classify joints and explain in detail about sub-classification of synovial joints.
2. Muscles of vertebral column. Explain in detail about their attachments and actions.

II. SHORT NOTES: (8 x 5 = 40)

3. Planes and motion
4. Active and passive insufficiency
5. Carrying angle
6. Coxa valga
7. Notes of extrinsic muscles of foot
8. Role of muscles in maintaining erect posture against gravity
9. Pathological gait
10. Tonic and phasic muscles

III. SHORT ANSWERS: (10 x 2 = 20)

11. Define force
12. Kinetics
13. Eccentric exercise
14. Mid stance
15. Kyphosis
16. Pes planus
17. Hip Retroversion
18. Muscles of quadrangular space
19. Cartilage
20. Range of Motion.