

First Year BPT Degree Supplementary Examinations March 2018**Paper III – Biomechanics and Kinesiology****(2016 Scheme)****Time: 3 hrs****Max marks: 100**

- Answer all questions
- Draw diagrams wherever necessary

Essays**(2x15=30)**

1. Describe the features, kinetics and kinematics of gait with a note on movement analysis
2. Elaborate on the structure and function of knee joint and effects of aging and disease.

Short Essays**(4x10=40)**

3. Effects of immobilisation and injury to muscles
4. Discuss the dynamic stability of shoulder joint
5. Joint design and materials used in human joint.
6. Describe Newton's law of motion with examples

Short Answers**(10x3=30)**

7. Diaphragm
8. Scapulohumeral rhythm
9. Equilibrium
10. Carpal tunnel
11. Cubitus valgus
12. First order lever
13. Ball and socket joint
14. Trabecular system
15. Locking and unlocking of knee
16. Motor unit
