

First Year BPT Degree Supplementary Examinations August 2017

Biomechanics and Kinesiology

(2012 - Scheme)

Time : 3 hrs

Max marks : 100

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essays:

(2x14=28)

1. Describe in detail the types of posture, postural control and postural analysis
2. Elaborate on the structure and function of hip joint and effects of aging and disease

Short notes:

(4x8=32)

3. Joint design and materials used in human joint.
4. Types and direction of motion
5. Structure of hand complex
6. The muscles of vertebral column

Answer briefly:

(10x4=40)

7. Center of gravity
8. Carpal tunnel
9. Lumbar pelvic rhythm
10. Primary and secondary curves of vertebral column
11. Pes planus
12. Patello-femoral joint
13. Genu varum
14. Locking and unlocking of knee
15. Pelvic tilt
16. Cubitus valgus
