

Q.P.Code 113014

Reg. No.:.....

First Year BPT Degree Supplementary Examinations August 2018

Biomechanics and Kinesiology

(2012 - Scheme)

Time : 3 hrs

Max marks : 100

- Answer all questions
- Draw diagrams wherever necessary

Essays:

(2x14=28)

1. Explain the analysis of following activities: sitting to standing, lifting (7+7)
2. Discuss the structure and functions of the arches of foot

Short notes:

(4x8=32)

3. Explain how creep affects the joint structure and function
4. Kinematics of gait cycle
5. Explain the types and direction of motion
6. Explain the pathomechanical changes of thorax in scoliosis

Answer briefly:

(10x4=40)

7. Discuss prime movers and stabilizers with examples
8. Any two pathological gait deviation
9. Repetitive strain injuries.
10. Lumbar-pelvic rhythm
11. Planes and axis of human joint movements.
12. Angle of Inclination
13. Center of gravity
14. Factors affecting the normal joint range of motion.
15. Anatomical pulleys
16. Muscular control of temporomandibular joint (TMJ) and add a note on TMJs relationship with cervical spine
