

Q.P.Code 113014 (2012 - Scheme)

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First Year BPT Degree Examinations - September 2013

(2012 - Scheme)

Biomechanics and Kinesiology

Time: 3 hrs Max marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays: (2x14=28)

1. Describe the kinetics and kinematics of standing posture.

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 dynamic stabilizers of shoulder joint.
- 6. Explain the pathomechanical changes of thorax in scoliosis

Answer briefly: (10x4=40)

- 7. Prime movers and stabilizers with examples
- 8. Gait deviation in gluteus medius weakness
- 9. Repetitive strain injuries.
- 10. Lumbopelvic rhythm
- 11. Planes and axis of human joint movements.
- 12. Postural sway
- 13. Passive insufficiency
- 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.
