

Q.P.Code 113014 (2012 - Scheme)

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First Year BPT Degree Supplementary Examinations - March 2014

(2012 - Scheme)

Biomechanics and Kinesiology

Time: 3 hrs Max marks: 100

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

Essays: (2x14=28)

1. Define gait and the phases of gait cycle. Describe the kinetic analysis of gait.

(2+6+6=14)

2. Define posture. Describe postural control in detail.

(2+12=14)

Short notes: (4x8=32)

- 3. Mechanics of breathing
- 4. Explain the humero-radial articulation and the effects of immobilization in elbow joint
- 5. Age related changes in vertebral column
- 6. Dynamic stabilizers of shoulder joint

anker com **Answer briefly:** (10x4=40)

- 7. Patella alta and patella baja
- 8. Define power and endurance
- Mechanical advantages of class I and II levers
- 10. Types of muscle work.
- 11. Q angle and its significance.
- 12. Screw home movement
- 13. Angle of wiberg.
- 14. Safe lifting
- 15. Functional position of the hand
- 16. Properties of connective tissues.

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