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## Q.P.Code 113014 (New Scheme)

Reg. No.:....

First Year BPT Degree Examinations - September 2014

## (2012 - Scheme)

## **Biomechanics and Kinesiology**

Time: 3 hrs Max marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays: (2x14=28)

- Define lever. Explain different types of lever with examples. Add a note on muscles in various lever systems. (2+6+6=14)
- 2. What is isotonic, isokinetic and isoinertial contraction. Describe isokinetic contraction in detail. Add a note on factors affecting active muscle tension. (6+4+4=14)

Short notes: (4x8=32)

- 3. Explain Newton's laws of motion with example.
- 4. Static and dynamic stabilizers of arches of foot.
- 5. Explain in detail on prehension of hand.
- 6. Osteokinematics and arthrokinematics of elbow complex.

Answer briefly: (10x4=40)

- 7. Scoliosis.
- 8. Patella alta and patella baja
- 9. What is spring ligament.
- 10. Muscles of ventilation.
- 11. What is centre edge angle of acetabulum and its clinical significance.
- 12. Ataxic gait.
- 13. Acromio clavicular motions.
- 14. Triangular fibro cartilaginous complex.
- 15. Tibial torsion.
- 16. Mention articulation of wrist complex.

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