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Q.P.Code: 201014 (Old Scheme)

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Second Year BPT Degree Supplementary Examinations - October 2015

## BIOMECHANICS (2010 Scheme)

Time: 3 hrs Max marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays (2x10=20)

- 1. What are the components of the shoulder complex. Explain about the scapula humeral rhythm.
- 2. Define gait and mention the phases of gait cycle. Describe the kinetics and kinematics of stance phase of gait cycle

Short notes (10x5=50)

- 3. Ligaments of writs complex
- 4. Angulation of femur
- 5. Define stress and strain and add a note on load deformation curve
- 6. Lumbo-pelvic rhythm
- 7. Isotonic contraction
- 8. Biomechanical role of inter vertebral disc
- 9. Movements of sacro-iliac joint
- 10. The function of meniscus in the knee joint
- 11. Biomechanics of throwing
- 12. Planes and axis

Answer briefly (10x3=30)

- 13. Postural control
- 14. Carrying angle
- 15. Closed chain exercise
- 16. Movements of the TMJ joint
- 17. Angle pull of a muscle
- 18. Anatomical pulley
- 19. Foreword head posture
- 20. Q-angle
- 21. Genu varum
- 22. Define elasticity