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Q.P.Code: 201014 (Old Scheme)

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Second Year BPT Degree Supplementary Examinations - April 2016

BIOMECHANICS (2010 Scheme)

Time: 3 hrs Max marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays (2x10=20)

- 1. Explain in detail the kinetic and kinematics of the cervical spine
- 2. Define posture and explain sagittal analysis of posture

Short notes (10x5=50)

- 3. Biomechanics of lifting
- 4. Role of patella in knee joint
- 5. Planes and axis
- 6. Movements of pelvic girdle
- 7. Scapulo-humeral rhythm
- 8. Radio-ulnar joint
- 9. Resolution of forces
- 10. Describe COG and LOG
- 11. Young's modulus of elasticity

12. Define force and describe force of gravity

Answer briefly
13. Inertia
14. Palmar arches (10x3=30)

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- 15.Center edge angle.
- 16. Pronation twist
- 17. Concave convex rule
- 18. Newton's law of motion
- 19. Forward head posture
- 20. Waddling gait
- 21. Angle of pull of a muscle
- 22. Hallux valgus

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