

Q.P.Code: 201014 (Old Scheme)**Reg. No.:.....**

Second Year BPT Degree Supplementary Examinations – October 2016

BIOMECHANICS**(2010 Scheme)****Time : 3 hrs****Max marks : 100**

- Answer all questions
- Draw diagrams wherever necessary

Essays**(2x10=20)**

1. Discuss in detail about the stability and mobility of hip joint
2. Discuss in detail about prehension and precision handling

Short notes**(10x5=50)**

3. Factors affecting muscle tension
4. Distinguish – osteokinematics and arthrokinematics
5. Metatarsal break
6. Gait cycle
7. Function of plantar arches
8. Muscle function
9. Oblique retinacular ligament
10. Carrying angle
11. The intervertebral disc
12. Functional components of vertebral column

Answer briefly**(10x3=30)**

13. Contractile unit of muscle
14. Moment arm of force
15. Genu Varum
16. Q angle
17. Newton's law of acceleration
18. Parallel force systems
19. Stride length
20. closed kinematic chain
21. Quadratus lumborum
22. Properties of connective tissue