Q.P. Code: 201014 (Old Scheme)

Second Year BPT Degree Supplementary Examinations September 2019

Biomechanics

(2010 Scheme)

Answer all questions

Draw diagrams wherever necessary

Essavs

Time: 3 hrs

- 1. Define gait and gait cycle. Explain in detail the determinants of gait.
- 2. Enumerate the classification of joints and explain in detail with examples.

Short notes

- 3. Sternoclavicular joint movements.
- 4. Explain active insufficiency with an example.
- 5. Define equilibrium. Discuss types of equilibrium with examples.
- 6. Write extensor mechanism of hand and add a note on its functions.
- 7. Explain the concept of stability in hip joint.
- 8. Movements of rib cage during breathing. Add a note on muscles of breathing.
- 9. Compare lumbo pelvic rhythm with scapula humeral rhythm.
- 10. Biomechanics of lumbar vertebrae.
- 11. Stress strain curve.
- 12. Arches of foot and its functions.

Answer briefly

13. Line of gravity and center of gravity.

- 14.Adverse effects of immobilization.
- 15. Genu valgum and genu varum.
- 16. Name the tarsal bones
- 17. Muscles of mastication
- 18. Pulley
- 19. Define axis and plane
- 20. Stride length
- 21. Define good and bad posture.
- 22. Accessory muscles of ventilation.

(2x10=20)

(10x3=30)

(10x5=50)

Max marks: 100

Reg. No.:....