



Second Year BPT Degree Supplementary Examinations August 2017

BIOMECHANICS

(2010 Scheme)

Time : 3 hrs

Max marks : 100

- Answer all questions
- Draw diagrams wherever necessary

Essays

(2x10=20)

1. Discuss the structural components of shoulder complex and discuss the dynamic stability of glenohumeral joint
2. Define gait. Mention its parameters and describe in detail the determinants of gait

Short notes

(10x5=50)

3. Active insufficiency
4. Sterno-clavicular joint
5. Scapulo – humeral rhythm
6. Types of motion
7. Arches of foot
8. Angle of inclination of femur
9. Locking and unlocking of knee
10. Ground reaction force
11. Cruciate ligaments
12. Concave-convex rule.

Answer briefly

(10x3=30)

13. Equilibrium
14. Center of gravity
15. Work
16. Tip to tip prehension
17. Glenoid labrum
18. Active tension
19. Genu valgum
20. Pelvic rotation
21. Cadence
22. Acetabular ante version
