

First Year BPT Degree Supplementary Examinations June 2023

Paper III – Biomechanics and Kinesiology

(2016 Scheme)

Time: 3 hrs

Max marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essays

(2x15=30)

1. Explain the structure configuration of hip joint in relation to weight bearing in unilateral and bilateral stance along with factors contributing for its stability
2. Analyze posture and explain the postural deviations

Short Essays

(4x10=40)

3. Define scapulohumeral rhythm. Explain about the role of glenohumeral joint and scapulothoracic joint during shoulder elevation (2+8)
4. Triangular Fibrocartilaginous Complex (TFCC)
5. Power grip
6. Determinants of gait

Short Answers

(10x3=30)

7. Explain waddling gait
8. Subacromial space
9. Close packed position
10. Carrying angle
11. Explain nutation and counter nutation
12. Nucleus pulposus
13. Q angle
14. Nursemaid's elbow
15. Layers of articular cartilage
16. Uses of meniscus in knee joint