

First Year BPT Degree Supplementary Examinations July 2022

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. Discuss in detail the articular structures, arthrokinematics and osteokinematics of tibiofemoral joint
2. Explain the structure and function of the plantar arches in detail

Short Essays

(4x10=40)

3. Phases of gait cycle
4. Intervertebral disc structure and function
5. Concurrent force system
6. Pelvic tilts

Short Answers

(10x3=30)

7. Explain Scaption
8. Define moment arm
9. Lumbosacral angle
10. Law of inertia
11. Sesamoid bone
12. Load deformation curve
13. Enthesis
14. Spur and shunt muscle
15. Scapulo humeral rhythm
16. Parallel force System