

Q.P. Code: 123014

Reg. No.:.....

**First Year BPT Degree Regular/Supplementary Examinations
December 2024**

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 about the gait and phases of gait.
2. Write the structure and contractile unit of a muscle. Write the types of muscle fibre and the types of muscle contraction.

Short Essays

(4x10=40)

3. Discuss lumbo-pelvic rhythm and its significance.
4. Ligaments of Vertebral Column.
5. Triangular fibrocartilage complex (TFCC).
6. Active and Passive Insufficiency.

Short Answers

(10x3=30)

7. Newton's 1st law.
8. Anterior talo fibular ligament.
9. Angle of inclination of femur.
10. Axes and Planes.
11. Pronation and supination of forearm.
12. Subacromial space.
13. Torque.
14. Carrying angle.
15. Ground Reaction force.
16. Stride length.
