

2012 Scheme

Q.P.Code 113014

Reg. No.:.....

First Year BPT Degree Supplementary Examinations January 2023

Biomechanics and Kinesiology

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:

(2x14=28)

1. Define posture. Add a note on static and dynamic posture and explain about postural control
2. Define stability of hip joint and explain about various forces acting on hip joint in unilateral and bilateral stance

Short notes:

(4x8=32)

3. Linear force systems and concurrent force system
4. Explain the phases of gait cycle
5. Newton's law of motion
6. Kinetics and kinematics of knee joint

Answer briefly:

(10x4=40)

7. Torque and momentum
8. Q- angle
9. Analysis from sit to stand
10. Functions of menisci
11. Muscles of mastication
12. Young's modulus
13. LOG, COG and BOS
14. Scoliosis
15. Stabilizers of shoulder joint
16. Carrying angle
