

2012 Scheme

Q.P.Code 113014

Reg. No.:.....

First Year BPT Degree Supplementary Examinations June 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 gait. Explain the parameters of gait and add a note on running gait
2. Describe in detail about scapulohumeral rhythm

Short notes:

(4x8=32)

3. Explain briefly about the kinematics of wrist joint
4. Explain the different types of muscle contraction and add a note on agonist and antagonist group of muscles
5. Describe plantar arches and its significance
6. Explain different types of levers with human examples

Answer briefly:

(10x4=40)

7. Close packed position and loose packed position
8. Stair climbing gait
9. Lumbo pelvic rhythm
10. Classify synovial joints in detail
11. Kinetics and kinematics of temporomandibular joint (TMJ)
12. Stabilizers of elbow joint
13. Active and passive insufficiency
14. Analysis of lifting
15. Muscles of ventilation
16. Gait deviations
