

2012 Scheme

Q.P.Code 113014

Reg. No.:.....

First Year BPT Degree Supplementary Examinations November 2025

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. Explain the structure of knee joint in detail and add a note on screw home mechanism of knee joint.
2. What is the difference between power grip and precision grip. Describe any two types of grip.

Short notes:

(4x8=32)

3. Describe the structure of intervertebral disc.
4. Static and dynamic stability of shoulder joint.
5. Structure and function of Temporomandibular joint.
6. Discuss the Analysis of throwing.

Answer briefly:

(10x4=40)

7. Angle of inclination of femur.
8. Muscles of respiration.
9. Classification of Synovial joints.
10. Define gait and explain gait cycle.
11. Equilibrium and classify with appropriate examples.
12. Analyze forces acting on hip during bilateral stance.
13. Pulled elbow.
14. Strategies controlling posture.
15. Ligaments of knee joint.
16. Goniometer and principles of goniometer.

CORRECTION / NO-CORRECTION FILE
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QPCODE: 113014

Dated: 07-11-2025

Question No.5

Corrected as "Structure and function of Temperomandibular joint."

Question No.6

Replaced with "Explain three orders of levers with examples."

Question No.16

Replaced with "Load deformation curve."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS