

2012 Scheme

Q.P.Code 113014

Reg. No.:.....

First Year BPT Degree Supplementary Examinations February 2022

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. Elaborate on the structure and functions of hip joint and effects of aging on it.
2. Discuss the kinetics and kinematics of trunk and upper extremities in relation to gait.

Short notes:

(4x8=32)

3. Discuss the structure and functions of the cervical region in detail.
4. Discuss the phases of gait cycle.
5. Discuss the function of the plantar arches.
6. Significance of anatomical pulleys with examples

Answer briefly:

(10x4=40)

7. Lumbo-pelvic rhythm.
8. Active insufficiency.
9. Functional position of hand.
10. Prehension.
11. Concurrent force systems.
12. Synovial joint.
13. Axis and planes.
14. Carrying angle.
15. Q angle.
16. Menisci.
