

2012 Scheme

Q.P.Code 113014

Reg. No.:.....

First Year BPT Degree Supplementary Examinations July 2021

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 ankle joint and effects of aging on it.
2. Discuss the kinetics and kinematics of trunk and lower extremities in relation to gait.

Short notes:

(4x8=32)

3. Discuss the structure and functions of thoracic region
4. Discuss the types of posture.
5. Discuss the function of the palmar arches.
6. Types of levers with example.

Answer briefly:

(10x4=40)

7. Scapulo-Humeral rhythm.
8. Metatarsal break.
9. Multipennate muscle.
10. Intervertebral disc.
11. Parallel force systems.
12. Ball and socket joint.
13. Muscles associated with the rib cage.
14. Functional joint.
15. Pes Planus.
16. Anatomic pulleys with an example