

QP CODE: 208022

Reg. No:

**Second Year Bachelor of Occupational Therapy Degree Regular/
Supplementary Examinations October 2025
Biomechanics, Applied Anatomy and Applied Physiology
(2020 Scheme)**

Time: 3 Hours

Total 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*

Elaborate on

(2x20=40)

1. Explain the biomechanics of the hip joint.
2. What is kinetics and kinematics. Describe in detail the Kinematic Variable.

Write notes on

(8x5=40)

3. Phases of gait cycle.
4. Draw elbow joint.
5. Describe prehension skills in the hand.
6. Describe the role of menisci in the knee joint.
7. Explain the different order of levers using an example.
8. Intervertebral disc prolapse.
9. Function of extrinsic muscles of the ankle and foot.
10. Describe in detail the gliding mechanism of extrinsic finger flexors.

Short Answers

(10x2=20)

11. Describe lung volumes.
12. Explain the control of posture.
13. Function of synovial fluid.
14. Enumerate the steps in the evaluation procedure for muscle strength.
15. Enumerate different types of sensations.
16. Fatigue.
17. Determinants of cardiac performance.
18. Features of classic tennis elbow.
19. Passive insufficiency.
20. Muscles involved in the Metacarpophalangeal joint flexion.

CORRECTION / NO-CORRECTION FILE
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QPCODE: 208022

Dated: 03-11-2025

Question No.2

Modified as "What is Kinetics and Kinematics. Describe the Normal mechanism of dynamic stability of the glenohumeral joint."

Question No.20

Corrected as "Muscles involved in the Metacarpophalangeal joint flexion."

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