

**Second Year Bachelor of Occupational Therapy
Regular/Supplementary Examinations October 2024**

Biomechanics, Applied Anatomy and Applied Physiology

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 on arthrokinematics of the knee joint including locking and unlocking and the axial rotation of the knee joint with applied anatomy.
2. Describe the function of the Shoulder complex including the dynamic stability of the glenohumeral joint.

Write notes on**(8x5=40)**

3. Torque.
4. Length-tension relationship of muscle.
5. Functions of vertebral column.
6. Carpel tunnel syndrome.
7. Ankle joint ligaments.
8. Phases of Gait.
9. Flat foot.
10. Hip joint

Short Answers**(10x2=20)**

11. Parallel force system.
12. Contents of the inter-vertebral disc.
13. Angle of inclination of humerus.
14. Define carrying angle.
15. Name the collateral ligaments of MCP joints.
16. Name the thumb muscles.
17. Breath sounds.
18. Name the muscles of the hip extensors.
19. ECG.
20. Hallux valgus.
