QP CODE: 208022	Reg. No:

Second Year Bachelor of Occupational Therapy Regular/Supplementary Examinations October 2023

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 the biomechanics of the shoulder complex.
- 2. Explain the structure and function of the central nervous system.

Write notes on (8x5=40)

- 3. Role Intervertebral Disc.
- 4. Explain the role of the wrist in optimizing extrinsic hand muscle length tension.
- 5. Describe the patella as an anatomic pulley.
- 6. Describe in detail the properties of the muscle
- 7. Elaborate on the determinants of the gait cycle.
- 8. Functional Position of hand.
- 9. Write in detail about the structure and function of the muscles associated with the hip joint.
- 10. Explain the evaluation procedure for range of motion measurements.

Short Answers (10x2=20)

- 11. Techniques of Transfers.
- 12. Maintenance of blood pressure
- 13. Determinants of cardiac performance
- 14. Features of classic tennis elbow
- 15.Prehension.
- 16. Action of lumbricals
- 17. Newton's second law
- 18. Types of equilibrium
- 19. Center of gravity
- 20. Saddle joint
