

**QP CODE: 208022**

**Reg. No: .....**

**Second Year Bachelor of Occupational Therapy Regular Examinations  
November 2022**

**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. Discuss in detail about the anatomy, articulation, ligaments and muscles of the vertebral column.
2. Write a detail essay on anatomical structures of the hip joint.

**Write notes on**

**(8x5=40)**

3. Segmental centre of gravity.
4. Classes of lever system
5. Types of muscle contraction.
6. Scapulohumeral rhythm.
7. Abnormalities of tone.
8. Locking and unlocking of knee joint.
9. Subtalar joint.
10. Scoliosis.

**Short Answers**

**(10x2=20)**

11. Define shear and friction force.
12. Define motor unit.
13. Define tipping of the scapula.
14. Glenoid labrum.
15. Name the thenar muscles.
16. Define Q angle.
17. Pes Cavus.
18. Claw toe.
19. Define stride length.
20. Painful arc syndrome.

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