QP CODE: 208022 **Reg. No: ……..**

Second Year Bachelor of Occupational Therapy Degree Supplementary Examinations March 2026

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. Describe the structural components, movements and functions of elbow joint.
2. Describe the phases of gait cycle and explain their importance in normal walking. (15+5)

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

3. Explain passive insufficiency with an example.
4. Name the rotator cuff muscles and state two functions. (2+3)
5. Explain lumbar-pelvic rhythm and its significance. (4+1)
6. Explain the role of intervertebral discs in spinal stability and mobility.
7. What is Kinetics and kinematics. Give one example for each. (3+2)
8. Describe the functional position of wrist and hand.
9. Outline the effects of exercise on respiration.
10. Define kyphosis. Explain the effect of kyphosis on body structure. (2+3)

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

11. Write any two advantages of coracoacromial arch.
12. Define scapulohumeral rhythm.
13. What is pad-to-pad prehension. Give one example. (1+1)
14. List the muscles responsible for elevation of shoulder.
15. What is pes cavus.
16. Define carrying angle of elbow.
17. What is angle of torsion
18. Define isometric exercise.
19. Outline Newton’s third law of reaction.
20. Define Chronic Obstructive Pulmonary Disease (COPD).

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