

Rajiv Gandhi University of Health Sciences, Karnataka
III Semester Bachelor of Occupational Therapy Degree Examination – 22-May-2025

Time: Three Hours

Max. Marks: 100

BIOMECHANICS (GENERAL & UE) and ERGOTHERAPEUTICS (OS/RS)

Q.P. CODE: 3420

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Define kinetics and kinematics. Discuss different types of forces in details.
2. Discuss biomechanical aspect of AC joint in Shoulder.
3. Static and dynamic Posture. Factors affecting the posture.

SHORT ESSAYS (Answer any Ten)

10 x 5 = 50 Marks

4. Explain biomechanics of Elbow joint
5. Define lever System. Discuss different Classes of lever with example with human body
6. Discuss Newton's law of motion in details.
7. Palmer arches in hand
8. Define vicarious movement. Discuss different type of Vicarious Movement in details.
9. Muscle around the Shoulder joint
10. Discuss various type of displacement
11. Discuss the peripheral nerve lesion in Trick movement
12. Discuss Extensor Mechanism in Hand
13. Glenohumeral motions
14. Major goals of postural control
15. Discuss various injury in Elbow joint

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

16. Mechanical Advantages
17. Torque
18. Base of Support
19. Carrying angle
20. Tennis Elbow
21. Gravity
22. Scoliosis
23. Froment's sign
24. Precision handling
25. Power grip
26. Subluxation of Shoulder
27. Parallel force system
