

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – 05-Jun-2024

Time: Three Hours

Max. Marks: 100 Marks

BIO-MECHANICS (RS - 5)

Q.P. CODE: 2734

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

LONG ESSAYS (Second Question choice)

2 x 10 = 20 Marks

1. Describe articulations of hip joint and explain the motions of pelvis on femur.
2. Define posture. Explain posture analysis in frontal plane.

Or

Name the joints of shoulder complex. Explain the biomechanics of gleno-humeral joint

SHORT ESSAYS (Question No.3 & 12 choice)

10 x 5 = 50 Marks

3. Write a note on scapula humeral joint.

Or

List the types of joint and describe synovial joint.

4. Classify and explain equilibrium with example.
5. Describe bucket-handle and pump handle movement.
6. Describe the Static stability of hip joint.
7. Explain the Bio mechanics of elbow complex.
8. Explain the different types of axis and planes.
9. Explain Lumbo-pelvic rhythm.
10. Describe the classification of joints.
11. Describe the characteristics of type I and type II muscle fibers.
12. Describe the precision pinches.

Or

Explain torque and moment arm with an example.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Define step length.
14. Define concave-convex rule.
15. What is patella Baja.
16. Functions of Meniscus.
17. Good and bad posture.
18. Name the ligaments of shoulder joint.
19. Types of Equilibrium.
20. Define Cadence.
21. Define Q Angle.
22. Types of Motion.
