

G 8496



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Reg. No.....

Name.....

**BACHELOR OF PHYSIOTHERAPY (B.P.T.) DEGREE EXAMINATION
APRIL 2025**

First Year

BIOMECHANICS

(2008 Admission Onwards–Last and Final Special Mercy Chance)

Time : Three Hours

Maximum : 100 Marks

Draw neat labelled diagram wherever necessary

Long Essays

*Answer any **two** questions.*

1. Describe the structure and function of the Elbow Complex. What are the movements occurring in this complex ?
2. Discuss the kinetics and kinematics of Normal gait.
3. Discuss in detail regarding the articulating structure and kinematics of the Gleno-humeral joint and related pathomechanics.

(2 × 15 = 30)

Short Essays

*Answer any **eight** questions.*

4. Lumbar pelvic rhythm.
5. Spurt and shunt muscle.
6. Angulation of femur.
7. Trabecular system of the hip joint.
8. Newtons Laws of Motion.
9. Active and passive insufficiency.
10. Parallel force system.
11. Muscles of the vertebral column.
12. Mobility and stability of the hip joint.
13. Function of the Ankle joint.

(8 × 5 = 40)

Turn over





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Short Notes

Answer all questions.

14. Genu varum.
15. Scissoring gait.
16. Quadriceps extension lag.
17. Claw toe.
18. Torque.
19. Prime movers.
20. Kyphosis.
21. Saddle joint.
22. Tennis elbow.
23. Tibial torsion

(10 × 3 = 30)

