



Abhinav Bindra Sports Medicine and Research Institute
BPT 1ST Internal Examination January 2026 (3rd Sem)

Question Code: IJ304

Date: 08. 01. 2026

Time: 09:00 AM-12:00 PM

Subject Code: 23ABP304

Subject: Biomechanics

F.M.: 80 marks

A) Long Questions- Answer Any 3 (3 × 15 Marks)

1. Explain anatomy of thoracic cavity
2. Explain the biomechanics behind respiratory movements
3. Explain anatomy of hip joint
4. Explain the biomechanics of shoulder joint
5. Explain anatomy of knee complex

B) Short Questions- Answer all (6 × 5 Marks)

1. Force systems in biomechanics
2. Wheels, axes & lever applications in biomechanics
3. Dynamic stabilisers of shoulder joint
4. Pump handle movement
5. Bucket handle movement
6. Screw home mechanism of knee joint
7. Mechanics of hip joint

C) Objective type Questions- Answer all (5 × 1 Mark)

1. Capitus fovea
2. Centre edge angle
3. Angle of inclination
4. Angle of torsion
5. Define biomechanics