

**ABHINAV BINDRA SPORTS MEDICINE AND RESEARCH INSTITUTE**

**Paper-II-Biomechanics & Kinesiology**

**3<sup>rd</sup> SEMESTER INTERNAL EXAMINATIONS**

**TIME – 3 HRS (9 AM TO 12 PM)**

**MARKS -100**

**Section –A**

**Answer any three (20\*3)**

1. Explain stress-strain curve
2. Discuss the osteokinematics, and arthrokinematics of the Hip joint.
3. Explain the osteokinematics and arthrokinematics of the Shoulder joint and its function.
4. Discuss the kinetics and kinematics of normal human locomotion in the sagittal plane with a line diagram

**Section –B**

**Answer any four (10\*4)**

1. Passive Insufficiency
2. Axis and Plane
3. Hammer toes
4. Lordosis
5. Sagittal plane analysis of Posture