

[Time: 3 Hours]

[Marks: 80]

N.B: 1. **Q.1 is compulsory.**

2. Attempt **any three** questions from **Q.2 to Q.6**

1. Write short notes on : 20
 - (a) Goniometers
 - (b) Jaipur foot
 - (c) Wrist Units
 - (d) Stress Strain curve of Bone

 2. (a) Classify force system . Explain three point pressure with minimum three examples. 12
(b) Explain Biomechanics of skin 08

 3. Describe the normal gait cycle with proper diagrams. Explain terminal stance and double support in detail with suitable sketches. 20

 4. (a) Describe criteria for providing spinal orthosis. List major Spinal Orthosis and describe one of them in detail with the diagram. 15
(b) Write short Note : SACH FOOT 05

 5. (a) Explain different loading modes of Bone with examples. 10
(b) Explain fabrication of PTB in detail. 10

 6. (a) Explain Above Elbow Prosthesis with diagram. 10
(b) Write Short Note : Milwaukee Brace 05
(c) Draw and explain synovial joint in detail and list different types of Synovial Joints. 05
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