## Q.P. Code : 23876

	(3 Hours) [7	otal Marks : 80
N.	<ul> <li>.B.: (1) Question No.1 is compulsory.</li> <li>(2) Attempt any three questions from the remaining question (3) Draw suitable diagrams wherever necessary.</li> <li>(4) Figures to right indicate full marks.</li> </ul>	ons.
1.	<ol> <li>Biomechanics of bone.</li> <li>Typical stress-strain curve; short explanation and diagram.</li> <li>Classification of synovial joints and diagram of anyone synovial jo</li> <li>Classification of force system.</li> </ol>	5 5 int. 5 5
2.	<ul> <li>(a) Define lever and mechanical advantage. Classify levers and give one example for each type.</li> <li>(b) Explain the biomechanical behaviour of bone under different loading of bo</li></ul>	e anatomical 10 ng modes. 10
3.	Explain the human gait cycle with neat stick diagrams and joint motio	on graphs. <b>20</b>
4.	<ul><li>(a) Different parts of PTB prosthesis and fabrication of PTB socket.</li><li>(b) Explain the principle of three-point pressure. Also state two application principle.</li></ul>	10ations of the10
5.	<ul><li>(a) Explain any two instrumentation devices used for gait analysis.</li><li>(b) Classify the vertebre and explain SOMI in detail with a neat diagram</li></ul>	10 m. 10
6.	<ul> <li>Write short notes on any FOUR :</li> <li>(1) SACH Foot</li> <li>(2) CTEV Shoe</li> <li>(3) Milwakee Brace</li> <li>(4) Quadrilateral socket</li> <li>(5) Terminal devices</li> </ul>	20

## (3 Hours)