T. E. (Biomedical) (Sem. VI) (Rev) May og

sub? Biomechanics

02/6/08

## 2872-08.

## (REVISED COURSE)

(3 Hours) |Total Marks: 100 : (1) Question No. 1 is Compulsory. Attempt any four questions out of remaining six questions. (2)(3)Figures to the right indicate full marks. Assume suitable data wherever necessary. (4)Draw sketches/diagrams wherever necessary. (5)(6)Use legible handwriting. Use blue/black ink. What are the functions of natural Kidneys? Explain the basic principle of Artificial Kidney Dialysis machine. Draw and explain using suitable block diagram, working of Artificial Kidney Dialyser. 14 Explain using suitable diagram HKAFO. 10 Explain using suitable diagram PTB. 10 Explain using suitable diagram Above Elbow Prosthesis. 10 Explain using suitable diagram Spinal Orthosis. 10 Explain in detail using suitable diagram various stages in Normal Human Locomotion. 20 Also explain in the importance of each stage. Explain using suitable block diagram working of Heart-Lung Bypass Machine. 10 Explain any two types of Oxygenators using suitable diagrams. 10 2) Explain with example principle of three point pressure in design of a device. 10 Explain Shoulder Prosthesis using suitable diagram. 10 Write short notes on (Any four) :--20 (a) Artificial Heart Valves. (b) Biomechanics of Skin. (c) Patient Rehabilitation. (d) Transducers in P and O. (e) Biomechanics of Bone.