

**B 280**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2005.

Sixth Semester

Electronics and Communication Engineering

EC 041 --- MEDICAL ELECTRONICS

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A --- (10 × 2 = 20 marks)

1. What is meant by 'Depolarization'?
2. What is 'Absolute Refractory Period'?
3. Name any four physical principles based on which Blood Flow Meters are constructed.
4. What are 'plethysmographs' and 'plethysmography'?
5. What are the advantages of 'Rectangular Wave Defibrillator'?
6. In which biomedical instrument, 'Peristaltic Pump' mechanism is used?
7. What is the use of A/D converter in the transmitter of a Biotelemetry system?
8. What care must be taken while measuring responses to electrical stimulation?
9. Differentiate between 'Macro shock' and 'Micro shock' with respect to current applied to heart.
10. What is a 'thermograph'?