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## B.Tech IV Year II Semester (R09) Advanced Supplementary Examinations, July 2013 BIOMEDICAL INSTRUMENTATION (Common to E.Con.E & EIE)

Time: 3 hours

8

Max Marks: 70

Answer any FIVE questions All questions carry equal marks

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- 1 Write notes on:
  - (a) Cardiac cycle.
  - (b) Defibrillator.
- 2 Explain the mechanism of conduction through nerve to neuro-muscular junction.
- 3 (a) Differentiate between bio-electrodes and bio-potential electrodes.(b) Explain about bio-chemical electrodes.
- 4 Explain the electrode placement for EEG and EMG recording.
- 5 Explain the grounding conditions in hospital environment.
- 6 (a) Explain about pnemuotachograph.
  - (b) Explain the shortwave diathermy.
- 7 (a) Explain the blood pressure and blood flow measurement.
  - (b) Explain about natural protective mechanism.
  - Write a short notes on:
    - (a) Bio signals and their characteristics.
    - (b) Hemodialysis machine.
    - (c) Hazards in operation rooms.

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