

**B.Sc. IN ANAESTHESIA AND CRITICAL CARE
TECHNOLOGY (BACT)**

00165
00100

**Term-End Examination
June, 2014**

**BAHI-076 : EQUIPMENT CARE AND
MAINTENANCE**

Time : 3 hours

Maximum Marks : 70

PART - A

Answer **any five** questions. Each question carries
8 marks. **5x8=40**

1. What are the basic components of any electronic medical instrumentation system ?
2. What are the types of transducers ? Write in detail about pressure transducers.
3. Describe the different electrodes used for recording. What are the merits and demerits ? Mention the characteristics of an ideal electrode.
4. Draw a normal ECG pattern in a cardiac cycle mentioning the time interval and the event responsible for the wave.
5. How will you set the ventilatory parameters for a 60 kg man in ICU who is paralysed (CMV) controlled mode of ventilation ?

6. How is the monitoring of the patient and the ventilator done during mechanical ventilation ?
7. What are the different types of sterilization used in D.T. ?
8. With the help of a diagram briefly describe the different sources of biomedical signals.

PART - B

Write short notes on **any five** of the following.

Each question carries **6** marks :

5x6=30

1. Laser application in biomedical field
 2. Indications for mechanical ventilation
 3. CPAP treatment
 4. Tracheal sectioning in ICU
 5. ABG (Arterial Blood Gas)
 6. Ethylene oxide sterilization
 7. Microbiological surveillance
 8. Indicators for sterilization
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