

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

Term-End Examination

December, 2015

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

Time : 3 hours

Maximum Marks : 70

*Note : Answer **any six** questions. Question No. 9 is **compulsory**.*

1. List the different types of transducers. Write in detail about pressure transducers. 3+5=8
2. Draw a normal ECG pattern in a cardiac cycle. Write the time interval and event responsible for each wave. 4+4=8
3. Describe the ventilatory settings for CMV for a 50 kg man in ICU who is paralysed. 8
4. Describe the sources of biomedical signals with the help of a diagram. 8
5. Write in detail about non-invasive ventilation. 8
6. Describe the different modes of sterilisation used in the OT. 8
7. Explain the components of medical instrumentation systems with diagrams. 8

8. Describe the types and uses of laser in biomedical field. 8
9. Write short notes on **any five** of the following : **5x6=30**
- (a) Conduction system of the heart.
 - (b) PEEP
 - (c) Universal Standard Precautions (USP)
 - (d) Electrode jellies
 - (e) ABG
 - (f) Laser resistant endotracheal tubes
 - (g) Tracheal suctioning in intubated patient.
 - (h) Dry heat sterilisation.
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