

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

Term-End Examination

June, 2015

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

Time : 3 hours

Maximum Marks : 70

- Note :** (i) *Attempt any five questions from Part-A. It carries 40 marks.*
- (ii) *Part-B consist of one question which is compulsory. It carries 30 marks.*

PART - A

Answer any five questions. 5x8=40

1. What are the various modes of *invasive ventilation* ? Describe three of them. 8
2. Describe the care and monitoring needed for a ventilated patient. 8
3. What are the general constraints in the design of medical instrumentation system ? 8
4. Write in detail about non-invasive ventilation. 8

5. What are transducers ? Write the classification and the factors which decide the choice of a transducer. 8
6. What is 12 lead ECG ? Describe the positions of electrodes and the specific leads and its significance. 8
7. Write an essay on laser and its applications in biomedical field. 8
8. What are the different modes of sterilization ? 8

PART - B

9. Write short notes on any five of the following : **5x6=30**
- (a) Microbiological surveillance and sampling of O.T. 6
 - (b) Bipap Ventilation 6
 - (c) Monitoring a patient on ventilation 6
 - (d) Universal precautions 6
 - (e) Indicators for sterilization 6
 - (f) Tracheal suction in an intubated patient 6
 - (g) Pressure transducer 6
 - (h) Biomedical signals and the electrodes used 6
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