

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

**Term-End Examination
December, 2014**

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

Time : 3 hours

Maximum Marks : 70

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

Answer **any five** questions.

5x8=40

1. What are the characteristics of a transducer ?
What are the types and write in detail about
pressure transducer ?
2. What are the universal precautions taken at
work ?
3. Explain the mechanics of normal and mechanical
ventilation. What are the differences between
spontaneous and controlled ventilation ? How
will you wean a patient from a mechanical
ventilator ?

4. Draw a normal ECG pattern in cardiac cycle mentioning the time interval. What are the different electrodes used for recording ECG ?
5. Describe the types and uses of laser in biomedical field.
6. With the help of a diagram describe the sources of biomedical signals.
7. Write an essay on Microbiological surveillance and sampling of operation theatre.
8. What are the complications of mechanical ventilation ?

PART - B

9. Write short notes on **any five** of the following : **5x6=30**
 - (a) Arterial Blood gas
 - (b) Ethylene oxide sterilization
 - (c) Autoclaving
 - (d) Continuous Positive Airway Pressure (CPAP) Treatment
 - (e) Laser resistant endotracheal tubes
 - (f) Transducers for body temperature
 - (g) Positive End Expiratory Pressure
 - (h) Indicators for sterilization
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