

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

Term-End Examination

June, 2016

00386

BAHI-076 : EQUIPMENT CARE AND MAINTENANCE

Time : 3 hours

Maximum Marks : 70

Note : Attempt any six questions. Question no. 9 is compulsory.

1. What are the various modes of ventilation ?
Briefly describe any three of them. 2+2+2+2=8
2. Discuss the complications of mechanical ventilation. 8
3. Describe the general constraints in the design of medical instrumentation systems. 8
4. What are transducers ? How are they classified ?
List the factors that decide the choice of a particular transducer. 2+2+4=8
5. Describe the different electrodes used for recording. Write their merits and demerits.
Mention the characteristics of an ideal electrode. 2+4+2=8

6. Write about the microbiological surveillance and sampling of OT. 4+4=8
7. Describe how will you care for a mechanically ventilated patient. 8
8. What are the indications for mechanical ventilation ? Write briefly about the cycling mechanisms of a ventilator. 3+5=8
9. Write short notes on any *five* of the following : $5 \times 6 = 30$
- (a) Ethylene Oxide Sterilisation
 - (b) CPAP (Continuous Positive Airway Pressure)
 - (c) Autoclaving
 - (d) BIPAP Ventilation
 - (e) Fumigation
 - (f) Weaning Modes of Mechanical Ventilation
 - (g) Monitoring of Patients on Mechanical Ventilation
 - (h) Indicators for Sterilization
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