

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

00351

Term-End Examination

December, 2017

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

Time : 3 hours

Maximum Marks : 70

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

1. Discuss the complications of mechanical ventilation. 8
2. Describe microbiological surveillance and sampling. 8
3. How will you set the ventilatory parameters for a 60 kg man in ICU who is paralysed (CMV) Controlled Mode of Ventilation ? 8
4. Explain the various modes of ventilation. Briefly describe any three of them. 8
5. What are the sources of biomedical signals ? Write in brief about them with the help of diagram. 8
6. What are the types of transducers ? Write in detail about pressure transducers. 8

7. Describe the various electrodes used for recording. Write their merits and demerits. Mention the characteristics of an ideal electrode. 8
8. Describe Synchronized Intermittent Mandatory Ventilation (SIMV). 8
9. Write short notes on any five of the following : 5x6=30
- (a) Indications of sterilization.
 - (b) Tracheal suctioning in ICU.
 - (c) Ethylene oxide sterilization.
 - (d) Positive End Expiratory Pressure (PEEP).
 - (e) ABG (Arterial Blood Gas).
 - (f) Indications for mechanical ventilation.
 - (g) Autoclaving.
 - (h) Weaning Modes of Mechanical Ventilation.
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