

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

**Term-End Examination**

**December, 2016**

00082

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

*Time : 3 hours*

*Maximum Marks : 70*

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

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1. Name the various modes of ventilation. Describe any two of them in detail. 2+3+3=8
2. Describe the various types of laser and their uses in medical field. 4+4=8
3. Describe the four basic functional components of any electronic medical instrumentation system. 8
4. Discuss transducer for body temperature measurement. Write its advantages. Explain how you will convert temperature measured in degrees Centigrade to Fahrenheit. 2+3+3=8
5. Explain the procedure of tracheal suctioning in an intubated patient. 8

6. Describe the ventilatory settings for Continuous Mandatory Ventilation (CMV) for a 60 kg patient in ICU who is paralysed. 8
7. Draw a normal ECG pattern in a cardiac cycle mentioning the time interval and event responsible for each wave.  $2+3+3=8$
8. Describe the complications of mechanical ventilation and discuss any one of the complications in detail.  $4+4=8$
9. Write short notes on any *five* of the following :  $5 \times 6 = 30$
- (a) Electrode Jellies
  - (b) Laser Resistant Endotracheal Tubes
  - (c) Dry Heat Sterilisation
  - (d) Conduction System of Heart
  - (e) Non-Invasive Ventilation
  - (f) Sedation and Paralysis in a Ventilated Patient
  - (g) Universal Standard Precautions (USP)
  - (h) Fumigation
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