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

**Term-End Examination**

**December, 2017**

**BAHI-082 : BIOMEDICAL INSTRUMENTATION**

*Time : 3 hours*

*Maximum Marks : 70*

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**Note :** *Attempt any six questions. Question No. 9 is compulsory.*

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1. Describe principle of oximetry. Name the sites where it can be placed. 5+3=8
2. Name the types of cautery used. Draw the circuit of any cautery. 3+5=8
3. Name types of catheters used in anaesthesia and surgical practise. Enumerate uses of any one catheter. 3+5=8
4. Describe monitoring aids in the Postoperative recovery room. Draw a Schematic drawing of any one monitor. 4+4=8
5. Name some infusion devices. Describe the mechanism of working principle with help of diagram. 3+5=8
6. Draw a labelled diagram of Bourdon gauge. Describe its principle. 5+3=8

7. Name the types of oxygen cylinders. Discuss any three conditions where oxygen therapy is given. **2+6=8**
8. Name types of Suction machines. Explain the working principle of suction machine. **2+6=8**
9. Write short notes on any five of the following : **5x6=30**
- (a) Indications of CVP monitoring
  - (b) Mapelson a circuit
  - (c) Methods of Nebulisation
  - (d) Types of videolaryngoscopes
  - (e) Pin index system
  - (f) Noninvasive methods of haemodynamic monitoring
  - (g) Sites of temperature monitoring
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