

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

Term-End Examination

December, 2014

BAHI-082 : BIOMEDICAL INSTRUMENTATION

Time : 3 hours

Maximum Marks : 70

PART - A

Answer **any five** questions. Each question carries **8** marks.

1. Describe a normal pulse oximetry recording and its artefacts. **8**
2. Describe pressure reducing valves in anaesthesia machine. **8**
3. Patient monitoring equipment required for anaesthesia for major surgery. **8**
4. Describe the principle of working of flowmeters in anaesthesia machine. **8**
5. Describe the methods used for filling of vaporizers. **8**
6. Describe the functional analysis of a simple anaesthesia ventilator. **8**

7. Describe the BiPAP machine. 8
8. Describe the venturi principle and its use in anaesthesia. 8

PART - B

Write short notes on **any five** of the following.
Each question carries **6** marks.

1. Describe parts of a gas cylinder 6
2. Alarms in anaesthesia machine 6
3. Paediatric defibrillator 6
4. Continuous Renal Replacement Therapy (CRRT) 6
5. Oxygen analyser 6
6. Two methods of sterilization in the OT 6
7. Precautions to prevent fire/explosions in OT 6
8. Heat and moisture exchange humidifiers 6

