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**BAHI-082** 

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

## Term-End Examination December, 2012

## **BAHI-082 : BIOMEDICAL INSTRUMENTATION**

Time : 3 hours

Maximum Marks: 70

### PART - A

Answer *any five* questions. Each question carries 8 marks. 5x8=40

- **1.** Describe the drug delivery systems in common use.
- 2. Safety features in modern anaesthesia machine.
- 3. Essential components of anaesthesia work station.
- **4.** Describe intermediate pressure system of anaesthesia machine.

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- 5. Describe a normal capnogram and capnograms in the following situations with the help of diagrams.
  - (a) Rebreathing
  - (b) Obstruction in airway
  - (c) Curare cleft
- 6. Precautions to be taken to prevent burns and physical injury in operation room.
- What is the importance of Lead 11, CM<sub>5</sub> and CB<sub>5</sub> leads in ECG monitoring? Describe the placement of the leads and advantages of the same.
- 8. Describe respiratory volumes and capacities with the help of a diagram.

#### PART - B

Write short notes on any five of the following.Each questions carries 6 marks.5x6=30

- **1.** Pin index system.
- 2. Describe in brief vaporiser mounting system.
- 3. Oxygen flush valve.
- **4.** Minimum machine check under life threatening condition (emergency cesarean section).
- 5. Universal leak test for anaesthesia machine.
- 6. Principle of pulse Oxymetry.
- 7. Transesophageal echoeardiography (TEE).
- 8. Safety measures while using surgical diathermy.