

00923 B.Sc. IN ANAESTHESIA AND CRITICAL CARE
TECHNOLOGY (BACT)

Term-End Examination

June, 2014

BAHI-082 : BIOMEDICAL INSTRUMENTATION

Time : 3 hours

Maximum Marks : 70

PART - A

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

1. Write in detail the anaesthesia machine check including the ventilator.
2. What are the indirect ways of BP measurement ? Mention the factors to be taken care of to get an accurate reading.
3. Describe the respiratory volumes and capacities with the help of a diagram.
4. Write the mechanism and the uses of pulse oximeter. In what situations will you get wrong reading.
5. Mention the precautions to be taken to minimize electrical shock hazards in the operation theatre.

6. What are the types of ETCO₂ monitor ? Draw a normal capnogram and mark all the phases.
7. Describe the drug delivery systems in common use.
8. How will you check the anaesthesia machine and ventilator before starting the surgery ?

PART - B

Write short notes on **any five** of the following.

Each question carries **6** marks :

5x6=30

1. Pin Index and DISS
 2. Pace maker
 3. Non-Invasive BP monitoring
 4. Temperature monitoring
 5. Flow control valve
 6. ECG
 7. Automatic External Defibrillator (AED)
 8. Classification codes for pace makers
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