

00037

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

Term-End Examination

June, 2015

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 ECG tracing and artefacts associated with IT. 8
2. Describe the types of vaporisers and their functioning. 8
3. Methods of sterilization in the O.T. 8
4. Describe the electrical circuit in a diathermy and its complications. 8
5. Describe the various intravenous infusion pumps available and their mechanism of working. 8
6. Describe the functional analysis of flow meters used in anaesthesia machine. 8

- | | | |
|----|---|---|
| 7. | Pre use tests done for gas cylinders strength | 8 |
| 8. | Describe parts of a manual resuscitator and its functional analysis | 8 |

PART - B (Short Notes)

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

- | | | |
|----|---|---|
| 1. | Liquid oxygen | 6 |
| 2. | Continuous Renal Replacement Machine (CRRT) Therapy | 6 |
| 3. | Alarms in anaesthesia machine | 6 |
| 4. | Pin index system | 6 |
| 5. | Warming devices in anaesthetic practice | 6 |
| 6. | Pressure reducing valves in anaesthesia machine | 6 |
| 7. | Defibrillators-types and method of using | 6 |
| 8. | Oxygen analyser | 6 |
-