DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY SECOND YEAR

PAPER I – APPLIED PHYSIOLOGY & PHARMACOLOGY

Q.P. Code: 841111

Time: Three Hours Maximum: 100 Marks

Answer All questions.

I. Elaborate on: $(3 \times 10 = 30)$

1. Classify Intravenous induction agents and write in detail about Thiopentone and Propofol.

- 2. Draw the tracheobronchial tree and name the parts. Describe the types of respiratory failure, causes and its management.
- 3. Define cardiac arrest. List the causes and management of cardiac arrest.

II. Write notes on: $(10 \times 5 = 50)$

- 1. Ropivacaine.
- 2. Sugammadex.
- 3. Transfer of gases in lungs.
- 4. Tracheal tug.
- 5. Vocal cord palsies.
- 6. Composition of body fluids.
- 7. Ondansetron.
- 8. Component therapy.
- 9. Composition of Ringers lactate and Dextrose normal saline.
- 10. Tramadol.

III. Short answers on:

 $(10 \times 2 = 20)$

Sub. Code: 1111

- 1. Name four opioids.
- 2. Composition of air.
- 3. Normal value of body pH, PaO2, PaCO2.
- 4. Define Bradycardia and Tachycardia.
- 5. Blood supply of Brain.
- 6. Name four reversal agents.
- 7. Mention the toxic dose of Lignocaine and Bupivacaine.
- 8. Name five antiarrhythmic agents.
- 9. Oxygen Dissociation Curve.
- 10. MAC value of Isoflurane and Sevoflurane in air.