

**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 x 10 = 30)

1. Write in detail about the different lung volumes and capacities with a neat diagram.
2. Mention the various regional anaesthetic techniques. Explain spinal anaesthesia in detail.
3. Write the causes, clinical features and management of hypotension?

II. Write notes on:

(10 x 5 = 50)

1. Myocardial infarction.
2. Oxygen dissociation curve and factors affecting it.
3. Name the anxiolytics Drugs. Add a note on therapeutic use of midazolam.
4. Calcium channel blockers.
5. Pulmonary edema.
6. Preanaesthetic medications.
7. Body Fluids – Composition.
8. Depolarising muscle relaxant.
9. Reversal agents.
10. Furosemide action and side effects.

III. Short answers on:

(10 x 2 = 20)

1. Name four NSAIDS.
2. Broncho-pulmonary segment.
3. Write uses and adverse effects of d-tubocuraine.
4. Composition of Normal saline.
5. Adverse effects of ACE Inhibitors.
6. Complications of Blood transfusion.
7. Name four drugs in Bronchial Asthma.
8. Storage of blood.
9. Two actions of Morphine.
10. Name any four diuretics.
