

**DIPLOMA IN OPERATION THEATRE AND ANAESTHESIA TECHNOLOGY
SECOND YEAR
PAPER I – APPLIED PHYSIOLOGY AND PHARMACOLOGY**

Q.P. Code: 841111

Time : Three Hours

Maximum : 100 Marks

Answer All questions.

I. Elaborate on:

(3 x 10 = 30)

1. Name the muscles of respiration. Explain briefly about the mechanism of respiration.
2. Define hypertension. Write in detail about the anti-hypertensives.
3. Mention the various regional anaesthetic techniques. Explain spinal anaesthesia in detail.

II. Write notes on:

(10 x 5 = 50)

1. Write briefly about body fluid compartment.
2. Pulmonary circulation.
3. Cardio pulmonary resuscitation.
4. What is acid base balance? Add a note on different buffer systems of the body.
5. Pharmacological actions of morphine.
6. Bronchodilators.
7. Mention the uses of Beta blockers.
8. Coronary circulation.
9. Antihistamines.
10. Mismatched transfusion reactions.

III. Short answers on:

(10 x 2 = 20)

1. What is Landsteiner's law?
2. What is functional residual capacity?
3. Define hypoxia. Name the types of hypoxia.
4. What is pneumothorax?
5. What is the composition of normal saline?
6. Diazepam.
7. Write the uses of xylocaine.
8. Dexamethasone.
9. Name any two vasodilators.
10. Role of atropine in pre-anaesthetic medication.
