

**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. Classify Muscle relaxants and write in detail on mechanism of action, dosage, indications, contraindications and side effects of each.
2. Enumerate the respiratory centres. Explain about the pulmonary circulation and pulmonary gas exchange in detail.
3. Define arrhythmia. Classify the types of arrhythmia, causes and management of each.

II. Write notes on:

(10 x 5 = 50)

1. Noradrenaline.
2. Thiopentone.
3. Morphine.
4. Entonox.
5. Lung volumes.
6. Preanaesthetic medications.
7. Fasting guidelines for anaesthesia.
8. Cardiac cycle.
9. Transfusion reaction.
10. Opioids.

III. Short answers on:

(10 x 2 = 20)

1. Name the muscles of respiration.
2. Name four beta blockers.
3. Classify Local anaesthetics.
4. Draw an ECG. Name the waves and intervals.
5. Blood supply of heart.
6. Draw the structure of vocal cord and name the parts.
7. Name the different blood groups and types.
8. Mention few buffers in the body.
9. Name three colloids.
10. Composition of Propofol.