

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 0423]

APRIL 2023

Sub. Code: 1131

**DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY  
SECOND YEAR (Regulation 2018-2019 onwards)**

**PAPER I – APPLIED PHYSIOLOGY & PHARMACOLOGY**

*Q.P. Code: 841131*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Name the Muscles of Respiration. Explain the Mechanism of Breathing.
2. Write the causes, clinical features and management of Hypertension.
3. Classify Analgesics. Write in detail about mechanism of action, doses, indications, contraindications and side effects of Morphine.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Body fluids.
2. Vital capacity.
3. Surfactant.
4. Conducting system of the Heart.
5. Atropine.
6. Diuretics.
7. Routes of Drug administration.
8. Types of Hypoxia.
9. Beta Blockers.
10. Reversal Agents.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Composition of Normal saline.
2. Mention any four Calcium Channel Blockers.
3. Name any four Analgesics.
4. Landsteiner's Law.
5. Uses of ECG.
6. Name any four Local Anaesthetic Agents.
7. Metabolic Acidosis.
8. Types of Pneumothorax.
9. Uses of Antiemetics.
10. Mention any two Bronchodilators.

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