

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 1131

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

PAPER I – APPLIED PHYSIOLOGY & PHARMACOLOGY

Q. P. Code: 841131

Time: Three hours

Maximum : 100 Marks

Answer ALL Questions

I. Elaborate on: **(3 x 10 = 30)**

1. Describe the Chambers of Heart and Vasculature of the Heart in detail.
2. Describe the mechanism of action, adverse effects and used of Angiotensin Converting Enzyme inhibitors.
3. Describe in detail about the causes, types and clinical features of Respiratory failure.

II. Write notes on: **(10 x 5 = 50)**

1. Pulmonary hypertension.
2. Uses of muscle relaxants.
3. Respiratory movements under anaesthesia.
4. Classification of Sedatives.
5. Myocardial oxygen supply.
6. Inotropes in clinical practice.
7. Cord palsies.
8. Airway obstruction.
9. Class 3 antiarrhythmic agents.
10. Water, Sodium and Potassium balance.

III. Short answers on: **(10 x 2 = 20)**

1. Name four narcotics.
2. Four uses of Nitroglycerin.
3. Composition of fluids.
4. Define Preload and Afterload.
5. Mention four indications of local anaesthetics.
6. Define Functional Residual Capacity.
7. Types of Acidosis.
8. List four adverse effects of Furosemide.
9. Layers of alveoli.
10. Role of calcium.
