

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 1249

B.Sc. CRITICAL CARE TECHNOLOGY
SECOND YEAR (Regulation 2018-2019 onwards)
PAPER IV – PATHOLOGY, PATHOPHYSIOLOGY & PHARMACOLOGY
Q.P. Code: 801249

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

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

1. Explain in detail about the Mode of Action, Uses, Side Effects and Contraindications of Non-Steroidal Anti-inflammatory Drugs.
2. Classify Antibacterial Agents. Add a note on Antimicrobial Resistance.
3. Describe the Pathophysiology of Congestive Cardiac Failure. Explain in detail about the Mechanism of Action, Uses and Adverse Effects of Digoxin.

II. Write notes on: **(8 x 5 = 40)**

1. Pneumoconiosis.
2. Myasthenia Gravis.
3. Clotting disorders.
4. Role of N₂O in Critical care.
5. Bronchiectasis and Lung abscess.
6. Adverse effects of Glucocorticoids.
7. Mucolytic agents.
8. Ketamine.

III. Short answers on: **(10 x 3 = 30)**

1. Name four insulin analogues.
2. COPD.
3. Antiseptic agents.
4. Immunosuppressive drugs.
5. Define Neuromuscular Blocker with example.
6. Transdermal Therapeutic System.
7. Ventilator Associated Pneumonia.
8. Classify Shock.
9. Pleural Effusion.
10. Name four Opportunistic infections associated with HIV infection.
