

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

[AHS 1024]

OCTOBER 2024

Sub. Code: 3201

**M.Sc. CRITICAL CARE TECHNOLOGY
FIRST YEAR (Candidates admitted from 2023-2024)
PAPER II – APPLIED PHYSIOLOGY AND PHARMACOLOGY RELATED TO
CRITICAL CARE**

Q.P. Code: 283201

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Write in detail about the disorders of Cardiovascular System.
2. Write an essay on Medical Gases.

II. Write Short Notes on:

(10x6 = 60)

1. Types of Respiratory Failure.
2. Spinal Stenosis.
3. Nephrotic Syndrome.
4. Intestinal Obstruction.
5. Thrombocytopenia.
6. Pharmacodynamics.
7. Aspirin.
8. Bronchodilators.
9. Antiseptic Agents.
10. Mucokinetics.

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

[AHS 1025]

OCTOBER 2025

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Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. a) Define Cor Pulmonale.
b) Write the Etiology and pathophysiology of Cor Pulmonale.
c) How is Cor Pulmonale diagnosed and managed?
2. Classify the Non-Steroidal Anti – Inflammatory Drugs and write its mechanism of action. Write the pharmacological actions, adverse effects and contraindications of Aspirin.

II. Write Short Notes on:

(10x6 = 60)

1. Define and classify Gastrointestinal bleeding. Write the causes and management of upper GI bleeding.
2. Write a note on Pharmacodynamics.
3. What are chronotropic agents? Write short notes on each.
4. Difference between STEMI and NSTEMI. Write down the management of STEMI.
5. What are the infections of Central Nervous System and how will you treat them?
6. Renal failure in the ICU.
7. Write a short note on Propofol.
8. Preparation and Presentation of Oxygen in hospitals.
9. Syndrome of Inappropriate antidiuretic hormone secretion.
10. Classify sympathomimetics. Write a note on Nor adrenaline and Adrenaline.
