

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

[AHS 0222]

**FEBRUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 1702

**M.Sc. CRITICAL CARE TECHNOLOGY
FIRST YEAR**

(Candidates admitted from 2017-2018 onwards - Paper II)

(Candidates admitted from 2020-2021 onwards - Paper III)

**PAPER II & III – APPLIED BIOCHEMISTRY AND PHARMACOLOGY
RELATED TO CRITICAL CARE**

Q.P. Code : 281702

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on: (2 x 20 = 40)

1. Write in detail about the functions of Calcium and the factors regulating the blood calcium level. Explain in detail about hypercalcemia and hypocalcemia.
2. Enumerate Atropine substitutes. Describe the pharmacological actions, uses and adverse effects of Atropine.

II. Write Short Notes on: (10x6 = 60)

1. Pyruvate dehydrogenase complex.
2. Vitamin K cycle.
3. Comparison between Kwashiorkor and Marasmus.
4. Classification of Enzymes.
5. Explain: Molarity and Molality.
6. Adrenaline in critical care.
7. Pre anaesthetic Medication.
8. Uses & adverse effects of Aspirin.
9. Antitussives.
10. Kinetics of elimination.

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Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Explain in detail about the classification of proteins with its functions.
2. Write in detail about Neuromuscular blockers.

II. Write Short Notes on:

(10x6 = 60)

1. Essential fatty acids.
2. Function of sodium and potassium.
3. Classify enzymes.
4. Niacin.
5. Basal metabolic Rate.
6. Nitrous oxide.
7. Inotropic agents.
8. Antihypertensive drugs.
9. Ipratropium.
10. Mucokinetics.
