

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

[AHS 0321]

MARCH 2021

Sub. Code: 1702

(OCTOBER 2020 EXAM SESSION)

M.Sc. CRITICAL CARE TECHNOLOGY

FIRST YEAR (From 2017-2018 onwards)

**PAPER II – 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. Define Isoenzymes and coenzymes with examples. Describe the enzymes increased in myocardial infarction.
2. Classify bronchodilators. Explain the mechanism of action of Xanthines.

II. Write Short Notes on:

(10x6 = 60)

1. Classification of Proteins.
2. Henderson – Hasselbach equation.
3. Basal Metabolic Rate.
4. Hyperkalemia.
5. Sources, RDA and Biochemical functions of thiamine.
6. Uses and mechanism of action of Flumazenil.
7. Inhaled Steroids.
8. Advantage of Nitrous oxide.
9. Paracetamol Poisoning.
10. Antibiotic resistance.
