

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 2603

**B.Sc. RESPIRATORY THERAPY
FIRST YEAR (Regulation 2014-2015)
PAPER III – BIOCHEMISTRY & PHARMACOLOGY
Q.P NO. 802603**

Time: Three Hours

Answer All questions

Maximum : 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Classification of proteins based on structure and functions.
2. Write in detail about sources, functions, RDA, deficiency manifestations of Vitamin B12.
3. Classify local Anaesthetics. Write in detail about the mechanism of action, uses and adverse effect of Lignocaine.

II. Write Notes on:

(8 x 5 =40)

1. Classify bronchodilators. Add a note on mechanism of their action.
2. Aerosol therapy.
3. Mucolytics.
4. First line antitubercular drugs.
5. Structure and mechanism of action of Insulin in regulation of blood glucose.
6. Digestion and absorption of lipids.
7. Functions of phosphorus.
8. Respiratory regulation of pH.

III. Short Answers on:

(10 x 3 = 30)

1. Define isoenzyme with example.
2. Clinical significance of Creatinine.
3. Uses of N-Acetyl Cysteine.
4. Hyperkalemia.
5. Henderson – Hasselbach equation.
6. Maintenance dose.
7. Competitive inhibition with example.
8. Advantages of newer neuromuscular blockers over older ones.
9. Mention four Sedatives.
10. Any three adverse effects of ACE inhibitors.
