

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

(LN 4254)

AUGUST 2018

Sub Code: 4254

**B.PHARM. DEGREE EXAMINATION
FIRST YEAR
PAPER IV – BIOCHEMISTRY**

Q.P. Code: 564254

Time: Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Explain the structure of Ribonucleic (RNA).
b) Bio-synthesis of De-oxy Ribonucleic acid (DNA).
2. Explain digestion, absorption and metabolism of Protein and Nucleo Protein.

II. Write notes on:

(8 x 5 = 40)

1. Sterols.
2. Glucose tolerance test.
3. Phospholipids and Sphingolipid.
4. Mutation.
5. Metabolism of magnesium.
6. Vitamin B-complex.
7. Bio-chemical mode of action of drugs.
8. Enzymes of clinical importance.

III. Short answers on:

(10 x 2 = 20)

1. Energetics of Tri-carboxylic acid cycle.
2. Thiamine.
3. Non-reducing sugar.
4. Biuret test.
5. Lecithin.
6. Normal values of urine.
7. Haemoglobin.
8. Nucleoside.
9. Insulin.
10. Glucosazone.
