

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

[BPHARM 0921]

**SEPTEMBER 2021
(FEBRUARY 2021 EXAM SESSION)**

Sub. Code: 4254

**B. PHARMACY DEGREE EXAMINATION
FIRST YEAR – (NON-SEMESTER)
PAPER IV – BIOCHEMISTRY
*Q.P. Code: 564254***

Time: Three hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain the reactions of the Glycolysis. Give the significance, and its regulations.
2. Describe the synthesis of Purine nucleotide and its regulations.

II. Write notes on:

(8 x 5 = 40)

1. Over view of Glycine metabolism.
2. Write the metabolism of Creatinine.
3. Classify Enzymes.
4. Factors affecting absorption of Iron.
5. Synthesis of Bile salts and its functions.
6. Inositol triphosphate.
7. Structure and functions of Messenger RNA (mRNA).
8. Biological value of Proteins.

III. Short answers on:

(10 x 2 = 20)

1. What is Symport? Give examples of Symport.
2. Scurvy.
3. What are the serum enzymes helpful in the diagnosis of Myocardial Infarction?
4. What are Heteropolysaccharides? Give examples.
5. Write the importance of Malate shuttle.
6. How fatty acids are activated in preparation of oxidation?
7. What is phosphatidic acid? Write its importance.
8. What is homocystinuria?
9. HMG CoA reductase.
10. Rothera's test.
