

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

[BPHARM 1022]

**OCTOBER 2022
(AUGUST 2022 EXAM SESSION)**

Sub. Code: 4254

**B.PHARMACY DEGREE COURSE (NON-SEMESTER EXAMINATIONS)
FIRST YEAR (Regulation 2009-2010)
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 Gluconeogenesis and mention its biological importance.
2. Describe the functions of liver. Explain about Jaundice and Vandenberg test.

II. Write notes on:

(8 x 5 = 40)

1. Discuss the chemistry and biochemical function of Hemoglobin.
2. Explain about the process of translation in Biosynthesis of proteins.
3. Sketch the schematic reactions involved in urea cycle.
4. Describe about glucose tolerance test and its significance.
5. Explain the physiological functions of sodium and potassium.
6. Describe pinocytosis and endocytosis process.
7. Summarize about lipoproteins and its functions.
8. Explain the functions of thyroid hormones.

III. Short answers on:

(10 x 2 = 20)

1. Enlist the deficiency manifestations of calcium.
2. What are Eicosanoids? Give examples.
3. Mention two biological sources and biological functions of vitamin D.
4. Define Hyperbilirubinemia.
5. List out the reducing sugar tests of carbohydrates.
6. Recall the significance of Immunoglobulin.
7. List out the nitrogenous bases in nucleotides.
8. What is carcinogenesis?
9. Define and classify lipids.
10. Give examples of disaccharides.
