

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

[AHS 0423]

APRIL 2023

Sub. Code: 5032

**B.Sc. MEDICAL LABORATORY TECHNOLOGY
THIRD YEAR - (Regulations 2010-2011 & 2018-2019 onwards)
PAPER II – BIOCHEMISTRY – II
*Q.P. Code: 725032***

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about Renal Function Tests.
2. Write in detail about DNA structure and Replication.
3. What is Jaundice? Differentiate the different types of Jaundice biochemically based on Liver Function Test.

II. Write notes on:

(8 x 5 = 40)

1. Define Buffer and add note on different types of buffer.
2. Etiology of Cancer. Add a note carcinogens.
3. Principle and types of Immunoassay.
4. Disorders of Acid Base Balance with one example.
5. Formation of bilirubin.
6. Post translational modification.
7. Gastric function tests.
8. Structure and Types of RNA.

III. Short answers on:

(10 x 3 = 30)

1. Name the bile salts and mention the functions of bile salts.
2. What is Genetic code?
3. Enzyme defect and any two biochemical features.
4. Bence Jones Protein.
5. Prostate specific antigen and its uses.
6. Enumerate any five enzymes of clinical importance.
7. Name the method for albumin estimation and formula for globulin calculation.
8. Principle of Uric acid test.
9. Uses of tumor markers with three examples.
10. Enumerate the types of lipoprotein.
