

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

[MD 1223]

**DECEMBER 2023
(OCTOBER 2023 EXAM SESSION)**

Sub. Code: 2046

**M.D. DEGREE EXAMINATION
BRANCH XIII – BIOCHEMISTRY**

**PAPER IV – CLINICAL BIOCHEMISTRY, HUMAN NUTRITION,
ENDOCRINOLOGY, IMMUNOLOGY AND RECENT ADVANCES IN
BIOCHEMISTRY**

Q.P. Code: 202046

Time: Three Hours

Maximum: 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. An essay on Biochemical investigations for a 30 year old female with a Thyroid Swelling.
2. What is Base deficit? Explain the Biochemical aspects related to condition of Low pH.

II. Short notes:

(10 x 5 = 50)

1. Gonadotropins.
2. Biomarkers for Hepatocellular carcinoma.
3. Calcium as second messenger.
4. Pleural Fluid analysis.
5. Monoclonal antibodies.
6. Diabetes insipidus.
7. Lactate dehydrogenase.
8. Procalcitonin.
9. Nutritional aspects of Protein.
10. Serum Electrolytes.

III. Reasoning Out:

(4 x 5 = 20)

1. Fructosamine in Diabetes Mellitus.
2. Point of care testing in Myocardial infarction.
3. Role of Human Placental Lactogen.
4. Zinc is used in treating Wilson's disease.
