

(LC 151)

APRIL 2013

Sub. Code: 2046

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

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

Q.P. Code: 202046

Time: Three Hours

Maximum: 100 marks

I. Essay : (2x10=20)

1. Write a note on Iron metabolism.
2. What are the biochemical functions of liver ?

II. Short Questions: (8x5=40)

1. Significance of TPO Ab
2. What is Microalbuminuria?
3. Significance of the Assessment of fetal lung maturity
4. Metabolic changes in type 2 diabetes
5. Inherited disorders of bilirubin metabolism
6. Biomedical importance of Insulin growth factors
7. Significance of Placental function
8. What is Carcinoembryonic antigen and its significance?

III. Reasoning Out: (4x5=20)

1. Oedema is not a feature of Conn's syndrome
2. Glycoproteins are important in fertilization.
3. Futile cycling of lipids occur.
4. Justify the changes in k_m and V_{max} in the presence of competitive inhibition.

IV. Very Short Answers: (10x2=20)

1. What are Antiphospholipid antibodies?
2. Enumerate the Subunits of lactose synthase.
3. What is Hereditary fructose intolerance?
4. Prognostic value of Prostate specific antigen
5. What are Atrial natriuretic peptides?
6. What is Chloride shift?
7. Biomedical significance of Human placental lactogen
8. What is Relative insulin deficiency?
9. What is anti – GAD?
10. What are the early biomarkers of kidney disorder?
