

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. Write an essay on Hormones produced by Pancreas, their mechanism of action, biochemical functions and assay methods.
2. Essay on cardiac Biochemical function tests with respect to Acute Myocardial infarction.

II. Short notes:

(10 x 5 = 50)

1. Directed evolution of enzyme.
2. Obesity.
3. Antisense therapy.
4. Starvation Keto acidosis.
5. Homocystinurias.
6. Acute Phase reactants.
7. Tubular function tests.
8. Growth factors.
9. Serum Electrolytes.
10. Screening tests for Inborn errors of aminoacid metabolism.

III. Reasoning Out:

(4 x 5 = 20)

1. Aldosterone receptor is not sensitive to Cortisol.
2. Muscle weakness and Headache are common in Conn's syndrome.
3. V_{max} decreases in non competitive enzyme inhibition.
4. Creatine kinase in Thyroid dysfunction.
