

[LS 151]

NOVEMBER 2020  
(OCTOBER 2020 SESSION)  
M.D. DEGREE EXAMINATION

Sub. Code: 2046

**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. What is automation of Clinical Laboratory? Discuss the sections in a clinical laboratory that can be automated.
2. Write briefly on quality control in laboratory. What are the variables that affect quality of the test reports?

**II. Short notes:**

**(10 x 5 = 50)**

1. Write briefly on GLP –I.
2. Biochemistry and functions of Neurotransmitters.
3. Metabolic aspects of Osteoporosis.
4. Explain Dietary supplements.
5. Functions of Growth factors.
6. Prenatal Diagnosis and its applications.
7. Principles of Dialysis.
8. Interpretation of Thyroid function tests in pregnancy
9. Glycosurias and their clinical importance.
10. Biochemical and metabolic effects of Interleukins.

**III. Reasoning Out:**

**(4 x 5 = 20)**

1. Early cataract formation in Diabetes mellitus.
2. Biochemical basis of renal osteodystrophy.
3. Bone is a dynamic tissue
4. Mechanism of hepatic encephalopathy.

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