

[LQ 151]

AUGUST 2020  
(MAY 2020 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. What is LIS? Discuss the advantages of LIS in a tertiary care hospital.
2. Strategies to reduce pre analytical variation in a large hospital laboratory.

**II. Short notes:**

**(10 x 5 = 50)**

1. Explain briefly about hepcidin.
2. Endocrine function of adipose tissue.
3. Glycated hemoglobin and its significance.
4. Total parenteral nutrition.
5. Investigations for female infertility.
6. Write briefly on incretin effect.
7. Types and functions of blood buffers.
8. Hypercalcemia of malignancy
9. Biochemical and metabolic effects of interleukins.
10. Functions of placenta.

**III. Reasoning Out:**

**(4 x 5 = 20)**

1. Large for date babies are commonly encountered in Gestational diabetes
2. Susceptibility to bacterial infection is a common complication of Multiple myeloma.
3. Ferritin as a biomarker of inflammation.
4. Prebiotics and probiotics

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