

[LP 505]

AUGUST 2019

Sub.Code : 5056

**M.B.B.S. DEGREE EXAMINATION
FIRST YEAR
PAPER VI – BIOCHEMISTRY - II**

*Q.P. Code: 525056***Time: Three hours****Maximum : 50 Marks****Answer All Questions****I. Essay:** (1 x 10 = 10)

1. Explain the biochemical basis of clinical features of porphyrias.

II. Write notes on: (5 x 4 = 20)

1. Mutation.
2. Types, properties and functions of different classes of immunoglobulins.
3. Congenital jaundice.
4. Genomic library.
5. Products formed from tryptophan.

III. Short answers on: (10 x 2 = 20)

1. Tests to assess biosynthetic function of liver.
2. Splicing of hnRNA (hetero nuclear RNA).
3. Give the normal values (reference interval) for the following parameters in blood/serum.
a) Creatinine b) Potassium c) TSH d) pH
4. Compare promoter with enhancer.
5. Role of anti diuretic hormone in the regulation of osmolality.
6. Role of different types of RNA in protein synthesis.
7. Hemoglobin electrophoresis of 2 year old boy with severe anemia showed elevated levels of HbF and HbA2 without any HbA. How will you interpret this?
8. Name four conditions in which Albumin: Globulin ratio is reversed and state the reason for the reversal.
9. What are the laboratory tests done for diagnosis of adrenal hypofunction and hyperfunction?
10. Give two examples for xenobiotic metabolism acting on endogenous substance.