

[LP 504]

NOVEMBER 2019

Sub.Code :5055

**M.B.B.S. DEGREE EXAMINATION  
FIRST YEAR  
PAPER V – BIOCHEMISTRY - I**

*Q.P. Code: 525055*

**Time: Three hours**

**Maximum : 50 Marks**

**Answer All Questions**

**I. Essay:**

**(1 x 10 = 10)**

1. Iron – Dietary sources, factors affecting dietary iron absorption, transport and storage, causes and clinical features of Iron deficiency anemia.

**II. Write notes on:**

**(5 x 4 = 20)**

1. Diagnostic criteria for diabetes mellitus and laboratory investigation in diabetes mellitus.
2. Functions of prostaglandins.
3. Absorption of lipids.
4. Mucopolysaccharides with examples.
5. Metabolism of LDL with clinical importance.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Biochemical manifestations in protein energy malnutrition.
2. Steatorrhea.
3. Ionophores – types with example.
4. Therapeutic uses of enzymes.
5. Lactose intolerance – cause and treatment.
6. Classes of enzymes with one example each.
7. Formation of Vitamin D and the formation of its active form.
8. Lung surfactants and their significance.
9. Name two lipid storage diseases (spingolipidoses) and their enzyme defect.
10. Role of brown adipose tissue in heat generation.

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