

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MBBS 0822]**

**AUGUST 2022**

**Sub. Code :5055**

**M.B.B.S. DEGREE EXAMINATION**

**(For the candidates admitted upto the Academic Year 2018-2019)**

**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. Define Gluconeogenesis. Explain the four key reactions of Gluconeogenesis. Add a note on the role of Glucagon in the regulation of Gluconeogenesis.

**II. Write notes on:**

**(5 x 4 = 20)**

1. Fluid mosaic model of Membrane.
2. Effect of pH and temperature on Enzyme activity.
3. Regulation of Cholesterol biosynthesis.
4. Name the Protein involved in iron metabolism and How?
5. Biochemical functions of Pyridoxine .

**III. Short answers on:**

**(10 x 2 = 20)**

1. Heparin structure and function.
2. Lipoprotein Lipase
3. Glycated Hemoglobin (HbA1c).
4. Name the enzymes deficient in Galactosemia.
5. Role of carnitine in fattyacid oxidation.
6. Methylmalonic Aciduria
7. Uncouplers of Oxidative Phosphorylation
8. What are Essential Fattyacids? Name them.
9. Active site of an enzyme
10. Wilson's Disease.

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