

[LP 504]

AUGUST 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. Explain the glycogen metabolism and its regulation. Add a note on associated disorders.

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

1. Lactic acidosis.
2. Explain why B12 deficiency causes macrocytic anemia.
3. How are dietary lipids distributed after digestion and absorption?
4. Phospholipids.
5. Types, functions, tissue specificity and physiological relevance of glucose transporters relevant to insulin secretion and action.

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

1. Importance of HbA1c testing.
2. Wernicke-Karsakoff syndrome.
3. What is the effect of non-competitive inhibition of K_m and V_{max} ?
4. Schematic representation of the electron transport chain.
5. Carnitine transport.
6. Vitamin K cycle.
7. Metabolic basis of role of aspirin as an anti-platelet agent.
8. How will you interpret following conditions?
 - a) Elevated Alkaline phosphatase.
 - b) Elevated Acid phosphatase.
9. Proteasome.
10. How do enzymes reduce the activation energy of a reaction?
