

**Madhya Pradesh Medical Science University, Jabalpur**  
**MBBS First Professional (Supplementary) Examination July-2023**  
**Subject- Biochemistry (Old Scheme)**

**Paper-I**

**Paper Code-23BM0000100031**

Time: 3:00 Hours

Maximum Marks :50

Instructions:

- a) All questions are compulsory
- b) Draw diagrams wherever necessary
- c) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper.

**Q.1 Long Answer Questions**

**2X 5 = 10**

- a. Explain the steps of B-oxidation in detail.
- b. Define enzymes. Classify them with suitable examples.

**Q.2 Short Answer Questions**

**10 X 3 = 30**

- a. Compare starch and glycogen.
- b. Draw a neat and labeled diagram depicting structure of mitochondria.
- c. Classify phospholipids and write their functions.
- d. Nutritional classification of amino acids.
- e. Factors affecting enzymes activity.
- f. Detoxification by conjugation.
- g. Cause and features of rickets.
- h. Describe the absorption of lipids.
- i. Active transport.
- j. Transamination and its significance.

**Q.3 Very Short Answer Questions**

**10 X1 = 10**

- a. Which is the only source of energy for erythrocytes and why?

- b. Why sucrose is a non-reducing sugar?
- c. Normal values of serum TG & Total cholesterol.
- d. Why egg protein is called a complete protein?
- e. Write the names of Ketone bodies.
- f. Normal values of plasma glucose levels in fasting & Post prandial state.
- g. Enumerate biologically important peptides.
- h. What is the reason for delayed wound healing in diabetics?
- i. Deficiency of Vitamin C.
- j. Write the enzymes responsible for Phenylketonuria & Alkaptonuria.

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