

**Madhya Pradesh Medical Science University, Jabalpur****MBBS First Professional Examination Feb-2023****Paper Code- 23BM0000100031****Subject- Biochemistry (Old Scheme)****Paper-I****Instructions:**

- All questions are compulsory
- Draw diagrams wherever necessary
- Answers of Questions and Sub questions must be written strictly according to the serial order of question paper.
- Subjective Answer should be answered in up to 30 words per marks. For example if a question having 2 marks answer should be answered in up to 60 words.

**Q.1 Long Answer Questions****2x5=10**

- Write all reaction steps of Hexose Monophosphate Shunt pathway. Add a note on the Metabolic Significance of this pathway.
- Define enzymes. Classify them with suitable example.

**Q.2 Short Answer Questions****10x3=30**

- Describe phospholipids.
- What is oxidative phosphorylation.
- Function of vitamin A.
- Active transport.
- Energetics of glycolysis.
- Mucopolysaccharides.
- Describe the regulations of blood calcium.
- Structure of DNA.
- Structure of cell membrane.
- Chemiosmotic theory.

**Q.3 Very Short Answer Questions****10x1=10**

- a. Essential amino acids.
- b. Normal PH of body fluids.
- c. Normal value of cholesterol and TG.
- d. Invert sugar.
- e. Name 2 purine bases of Nucleic Acid.
- f. Name the enzyme involved in Digestion of lipid.
- g. Causes of Respiratory Alkalosis.
- h. Function of cholesterol.
- i. Antioxidant vitamins.
- j. Xenobiotics.

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