Roll No. | | | | | | | | | | | | **Total No. of Pages : 01**

Total No. of Questions : 08

M.Sc. MLT (Biochemistry) (Sem.–1)

ENZYMES & METABOLISM-I

Subject Code : MMLT-102

M.Code : 20024

Time : 3 Hrs. **Max. Marks : 100**

INSTRUCTION TO CANDIDATES :

1. **Attempt any FIVE questions out of EIGHT questions.**
2. **Each question carries TWENTY marks.**

1) Define phospholipids. Classify them with suitable examples and state their functions.

2) Discuss in detail pentose phosphate pathway. Write down the various steps of the process and also comment about the importance of this cycle.

3) Explain the Watson and Crick model of DNA. Add a note on different forms of DNA.

4) Write short note on :

   a) Carnitine Shuttle

   b) Substrate level phosphorylation

5) Define isoenzymes and explain their structure, organ distribution and diagnostic importance.

6) Give an account of :

   a) Ornithine cycle

   b) ω-Oxidation of fatty acids

7) Explain the process-of protein biosynthesis.

8) Describe in detail the chemiosmotic theory of ATP formation.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.