

Roll No.

Total No. of Pages : 01

Total No. of Questions : 06

M.Sc. (MLT) (Sem.-2)
BIOLOGICAL OXIDATION AND METABOLISM
Subject Code : MLT-104
M.Code : 20008

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of SIX questions.
2. Each question carry TWELVE marks.

1.
 - a) Give a diagrammatic representation of electron transport chain showing the flow of electrons, sites of ATP formation and the sites of inhibitors of electron transport chain.
 - b) Discuss in detail the chemiosmotic coupling hypothesis of ATP formation?
2. What is biological oxidation? What is its biomedical importance?
3. Write short note on :
 - a) Laws of Thermodynamics
 - b) Acetyl-Co-A as a central molecule
4. What is redox potential? Explain with the help of an example. Discuss standard reduction potential and net reaction potential?
5.
 - a) Discuss in detail the various steps which take place during Salvage pathway for pyrimidines biosynthesis?
 - b) Write a short note on role of free energy in biological system.
6. Explain in detail the metabolic interrelationship between adipose tissue, liver and extra hepatic tissue.

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.