Roll No.

Y – 3203

M.Sc. (Second Semester) EXAMINATION, May/June 2021 MICROBIOLOGY Paper-203

(Microbial Physiology and Metabolism)

Time : Three Hours

Maximum Marks : 85 Note : Attempt all questions. Minimum Pass Marks : 29

Unit-I

1. Discuss the process of biological redox reactions with suitable examples.

17

17

Unit-II

 What do you understand by fermentation ? Discuss Homolactic and heterolactic fermentation with examples.
17

Unit-III

- 3. Write short notes on the following :
 - (a) Degradation of lipids
 - (b) Explain, what are add chain fatty acids
 - (c) Discuss chemolithotrops.

Unit-IV

 Illustrate the process of degradation of purines and pyrimidines nucleotides in brief.

Unit-V

What do you understand by diazotrophs ? Discuss in brief structure of nitrogenase complex.
17