

(Turn Over)

(2)

Describe in detail the various types of systems. Relate the concept of free energy with entropy and enthalpy.

Unit-II

2. Describe in detail the process of methanogenesis and explain its environmental consequences.

OR

Describe in detail C_3 and C_4 pathway along with their significance.

Unit-III

3. Describe in detail the Embden-Mayerhof pathway and its biological significance.

OR

Describe in detail the Homo and Heterolactic acid fermentation and its importance.

Unit-IV

4. Describe the process of Nitrogen fixation and its further cycling.

OR

Describe in detail the structure of endospore, its properties and germination.

(3)

Unit-V

5. Describe in detail the multicellular organisation in microbes.

OR

Describe in detail the microbial dormancy.
