

M.Sc., (Final) Biotechnology Degree Examination

August / September 2009

Directorate of Correspondence Course

(Freshers)

Paper - VI : Industrial and Environmental Biotechnology

Time : 3 Hours

Max. Marks : 85

Note : 1) Answer all questions

2) Illustrate wherever necessary

1. Define / Explain briefly the following. 5x3=15

- a. Foam
- b. Aerosol
- c. Sparger
- d. Rotary vacuum dryer
- e. Biomineralization

2. Write short notes on any FOUR of the following 4x5=20

- a. Environmental legislation
- b. Fed batch fermentor
- c. Crystallization
- d. Recalcitrancy
- e. Trickling filter

3. Answer any TWO questions from the following 2x10=20

- a. Preservation of industrially important microorganisms.
- b. Biodegradation of phenols.
- c. Biofuels from solid wastes

4. Discuss the maintenance of aseptic conditions in a fermentor. 15

OR

Write an account on the sources of single cell proteins and their importance in industry.

5. Discuss the role of biotechnology in controlling air pollution and add a note on biosensor. 15

OR

Give an account of the advantages and disadvantages of biopesticides.
