

2122

B.A./B.Sc. (General) Fifth Semester  
Industrial Microbiology

IMB-501: Biodegradation of Wastes and Pollutants

Time allowed: 3 Hours

Max. Marks: 33

**NOTE:** Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

x-x-x

I. Answer the following:-

- a) What is incineration? Enlist its advantages. (2)
- b) Explain the tertiary water treatment. (2)
- c) What is the tolerable level of faecal contamination for water supplies? (2)
- d) Discuss the biodegradation of alkyl sulphonates. (3)

UNIT - I

- II. Discuss in detail the process of composting. (6)
- III. What are the advantages and disadvantages of sanitary land fill method of waste disposal? (6)

UNIT - II

- IV. Discuss in detail the process of secondary water treatment. (6)
- V. Describe in detail the different disinfection techniques for liquid waste. (6)

UNIT - III

- VI. What is the tolerable level of faecal contamination in water supply? How can it be kept under control? (6)
- VII. What are the various methods employed for the disinfection of potable water supply? (6)

UNIT - IV

- VIII. Discuss the environmental hazards caused by oil pollution. (6)
- IX. Explain in detail the bio-degradation of benzyl-sulphonates. (6)

x-x-x