

1129

**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. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Answer the following:-

- a) What do you mean by landfill gas (LFG)?
- b) What are scum baffles?
- c) What do you mean by biosolids? Explain
- d) What is Gravel filter?
- e) What do you mean by index microorganisms of public health? (5x1)

UNIT – I

II. Describe the process solid waste Stabilization in a sanitary landfill? (7)

III. Write notes on the following:-

- a) Pit Composting
- b) Incineration (2x3½)

UNIT – II

IV. Write notes on the following:-

- a) Anaerobic filters
- b) Trickling filters (2x3½)

V. Describe the process of sewage treatment. (7)

UNIT – III

VI. Write notes on the following:-

- a) Faecal contamination
- b) Disinfection of potable water supplies (2x3½)

VII. Discuss, bacterial indicators of water safety. (7)

UNIT – IV

VIII. How does oil harm the environment? What happens in case of oil spill in sea and how does it affect the marine fauna and flora. (7)

IX. Discuss the biodegradation of Alkyl-Benzyl Sulphonates. (7)

x-x-x