Exam.Code:0005 Sub. Code: 0478

(6)

## 2123

## B.A./B.Sc. (General) Fifth Semester Industrial Microbiology IMB-501: Biodegradation of Wastes and Pollutants

Max. Marks: 33 Time allowed: 3 Hours NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit. X-X-X Answer the following:-I. What are the advantages of solid waste disposal employing sanitary landfill method? Discuss in brief the secondary water treatment. b) Enlist the microorganisms commonly present in the water contaminated c) with faecal matter? Discuss in brief the biodegradation of benzyl sulphonates. (2,2,2,3)d) UNIT - I Discuss in detail the method of incineration for solid waste disposal. Also explain its II. (6) advantages and disadvantages. What are the different composting methods employed for solid waste disposal? III. (6)UNIT - II (6) Describe the process of tertiary treatment of sewage. IV. Differentiate between primary and secondary treatment of sewage. V. (4,2)Discuss various disinfection techniques for liquid waste. UNIT - III (6) VI. Describe different bacterial indicators of water safety? What are the various methods employed for the disinfection of potable water supply? VII. (6) UNIT-IV VIII. What are the various reasons for oil pollution? How can it be prevented? (6)

Discuss about oil spillage and its potential risk to the environment.

IX.