

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E Sem-I Regular Examination January / February 2011

Subject code: 713105N

Subject Name: Medical Safety and Waste Management

Date: 03 /02 /2011

Time: 02.30 pm – 05.00 pm

Total Marks: 70

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1** (a) Explain method of segregation and collection of hospital waste. **07**
(b) Write a short note on air monitoring. **07**

- Q.2** (a) What is the purpose of waste management? Explain the Proper disposal method of contaminated waste. **07**
(b) What is incineration? Explain its types. Which type of waste should not be incinerated? **07**

OR

- (b) Explain management strategies and technologies for chemical waste volume reduction. **07**

- Q.3** (a) How would you dispose solid/liquid contaminated waste? **07**
(b) Write a short note on low level radio-active waste handling. **07**

OR

- Q.3** (a) How would you dispose hazardous waste? **07**
(b) Write a short note on Classification of low level radio-active waste. **07**

- Q.4** (a) Write a short note on X-ray safety for non-medical users. **07**
(b) What are the common methods of sterilization? What are the advantages and disadvantages of these methods? **07**

OR

- Q.4** (a) Write a short note on Potential occupational risks. **07**
(b) Write a short note on storage of sterilized items. **07**

- Q.5** (a) State the characteristics of an ideal disinfectant. Which factors affect its efficiency? Explain the classes of disinfectants briefly. **07**
(b) State advantages and disadvantages of steam sterilization, thermal inactivation, incineration, chemical disinfection, and ionizing irradiation. **07**

OR

- Q.5** (a) State the guidelines for managing infectious wastes and agents. **07**
(b) Give comparison of different techniques of treating infectious waste for various types of infectious wastes. **07**
