

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – I • EXAMINATION – WINTER 2012****Subject code: 713105N****Date: 16-01-2013****Subject Name: Medical Safety & Waste Management****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) What are the advantages and disadvantages of medical waste product recycling? **07**
(b) Write a short note on Air controlled Incinerator. **07**
- Q.2** (a) What is electric shock? Explain control of electric Hazards. **07**
(b) Explain types of leakage current and their measurement. **07**
OR
(b) Write a short note on radiation dosimetry. **07**
- Q.3** (a) What are the common sources of RF and Microwave hazards? How to control it? **07**
(b) Explain Air filtration techniques for waste management. **07**
OR
- Q.3** (a) Explain water systems for waste management. **07**
(b) Explain packaging and Labeling process of Medical waste. **07**
- Q.4** (a) Explain Biological effects of radiation on human body. **07**
(b) Explain steam sterilization process. **07**
OR
- Q.4** (a) Explain gas sterilization method. **07**
(b) Give brief idea about Biomedical waste rules in India. **07**
- Q.5** (a) Discuss the issues of patient safety that commonly occur in Hospitals. **07**
(b) Give the general classification of Biomedical wastes in detail. **07**
OR
- Q.5** (a) Discuss the different degradable & Biodegradable medical waste and their disposable techniques. **07**
(b) Explain management of Low level Radio-active wastes. **07**
