

GUJARAT TECHNOLOGICAL UNIVERSITY
ME Semester –I Examination Feb. - 2012

Subject code: 711706N**Date: 21/02/2012****Subject Name: Environmental Sanitation****Time: 10.30 am – 01.00 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) Discuss in details the general precautions during outbreak of an epidemic. **07**
(b) What are zoonoses? Discuss mode of spread and control of zoonoses. **07**
- Q.2** (a) Describe components of good housing programme. **07**
(b) Discuss sanitation for various public buildings. **07**
OR
(b) Discuss, substandard housing and its effects. **07**
- Q.3** (a) What are non ionization radiations? Discuss any one in details. **07**
(b) Discuss production and characteristics of LASER radiations. **07**
OR
- Q.3** (a) Discuss exposure criteria and permissible doses of radiations for human being. **07**
(b) What is natural radioactivity? Explain in details. **07**
- Q.4** (a) Discuss, various possible events, neutrons can undergo in a nuclear reactor. **07**
(b) Describe pressurized water reactor and its problems. **07**
OR
- Q.4** (a) Discuss, “Nuclear fuel Cycle”. **07**
(b) Discuss the pollution due to reactor and its control measures. **07**
- Q.5** (a) Discuss, “Nuclear Fusion”. **07**
(b) Explain radiation problems through food, water and air. **07**
OR
- Q.5** (a) Discuss measurement of radiation by chemical effect. **07**
(b) Discuss, “Thermoluminescence Dosimetry”. **07**
