

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject code: 711706N

Subject Name: Environmental Sanitation

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) What is a communicable disease? How is it transmitted? What are the steps taken for its control? **07**
- (b) Discuss spread of water and food borne disease. Discuss prevention and control of one of such disease with a specific example. **07**
- Q.2** (a) Discuss basic health principles of housing and its environment. **07**
- (b) Discuss requirements of good ventilation for housing and related habitat areas. **07**
- OR**
- (b) Discuss “Institution Sanitation” **07**
- Q.3** (a) What X rays? What are the sources of X rays? How are they generated? What are their medical uses? **07**
- (b) Discuss applications of UV radiations and their effects **07**
- OR**
- Q.3** (a) Discuss the sources of radiations in the environment. **07**
- (b) Discuss sources, applications and biological effects of Micro wave radiations. **07**
- Q.4** (a) What is a nuclear chain reaction? How is it started? Describe a chain reaction while a neutron strikes U235 atom. **07**
- (b) Explain the principles of radiation protection. **07**
- OR**
- Q.4** (a) What are the environmental hazards of nuclear fission reactor. **07**
- (b) Discuss “Practice of safety in a nuclear power plant”. **07**
- Q.5** (a) Discuss somatic and genetic effects of radiations. **07**
- (b) Discuss treatment of low activity radioactive liquid waste. **07**
- OR**
- Q.5** (a) Discuss treatment of high activity radioactive liquid waste. **07**
- (b) Discuss treatment and disposal of radioactive solid waste. **07**
