

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM – SEMESTER – VII • EXAMINATION – WINTER – 2015

Subject Code: 2270007

Date: 16/12/2015

Subject Name: Environmental Toxicology and Green Audit

Time: 10.30 AM to 1.30 PM

Total Marks: 80

Instructions:

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

- Q.1** (a) What is toxicity? Explain the factors which affect the toxicity of chemicals. **06**
(b) Write a note on principles of ecology and toxicology. **05**
(c) Differentiate acute and chronic Toxicity. **05**
- Q.2** (a) Define carcinogenicity and explain tests for mutagenesis toxicity. **06**
(b) Enumerate toxic inorganic compounds and discuss any two. **05**
(c) Write a short note on bio-assay techniques. **05**
- Q.3** (a) Enumerate toxic natural products and discuss any two. **06**
(b) Explain unsaturated non-aromatic hydrocarbon and aromatic hydrocarbons toxicology. **05**
(c) Write a note on toxicology of metals. **05**
- Q.4** (a) Explain toxicology of organooxygen compounds. **06**
(b) Discuss phase II reactions of toxicants. **05**
(c) Write a note on Metabolic reactions of xenobiotic compounds. **05**
- Q.5** (a) Describe biochemistry mechanism of mutagenesis and carcinogenesis. **06**
(b) Write in brief about ionizing radiation toxicology. **05**
(c) Write a short note on regulatory toxicology. **05**
- Q.6** (a) Write a note on phase I reactions related toxicity. **06**
(b) Discuss Framework of environmental auditing. **05**
(c) Explain management of the environment auditing process and future prospect of environment auditing. **05**
- Q.7** (a) Discuss environmental regulatory criteria. **06**
(b) Explain pollution control, wastes and recycling for environmental. **05**
(c) Write a note on standards for environmentally friendly products. **05**
