

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – VII • EXAMINATION – WINTER • 2016**

**Subject Code: 2270007****Date: 29-11-2016****Subject Name: Environmental Toxicology and Green Audit****Time: 10:30 am - 01:30 pm****Total Marks: 80****Instructions:**

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

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|-------------|-----|---|-----------|
| <b>Q.1</b>  | (a) | Discuss different pathways of Toxicants into ecosystem.   | <b>06</b> |
|             | (b) | Differentiate acute and chronic Toxicity.   | <b>05</b> |
|             | (c) | Discuss concepts of LD <sub>50</sub> and LC <sub>50</sub>   | <b>05</b> |
| <b>Q.2</b>  | (a) | Explain Plant toxin and Insect toxin in details.  | <b>06</b> |
|             | (b) | Discuss Toxic Inorganic phosphorus compounds in details.  | <b>05</b> |
|             | (c) | Discuss Toxicology of Aromatic hydrocarbons.  | <b>05</b> |
| <b>Q.3</b>  | (a) | Classify Organonitrogen compounds and discuss toxicology of Nitro compounds.                        | <b>06</b> |
|             | (b) | Write a note on toxicology of Organosulfur compounds.   | <b>05</b> |
|             | (c) | Discuss different Classifications of Toxicants.   | <b>05</b> |
| <b>Q.4</b>  | (a) | Enlist various Phase-I and Phase-II reactions and discuss Phase-II reactions of Toxicants.          | <b>06</b> |
|             | (b) | Discuss Ionizing radiation toxicology.  | <b>05</b> |
|             | (c) | Write a short note on Regulatory toxicology.  | <b>05</b> |
| <b>Q.5</b>  | (a) | Discuss biochemistry of Mutagenesis and Carcinogenesis.   | <b>06</b> |
|             | (b) | Explain metabolic reactions of Xenobiotic compounds.  | <b>05</b> |
|             | (c) | Discuss Legal approaches to the regulation of toxic substances.                                     | <b>05</b> |
| <b>Q. 6</b> | (a) | Define Environmental audit and discuss Framework of environmental auditing.                         | <b>06</b> |
|             | (b) | Explain Energy and land use planning for environmental.   | <b>05</b> |
|             | (c) | Discuss environmental regulatory criteria.  | <b>05</b> |
| <b>Q.7</b>  | (a) | Discuss standards for environmentally friendly products.  | <b>06</b> |
|             | (b) | Explain management of the environment auditing process and future prospect of environment auditing. | <b>05</b> |
|             | (c) | Discuss Bioconcentration and Biomarkers in details.   | <b>05</b> |

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