

Exam.Code:0905  
Sub. Code: 6647

1128

**B.E. (Bio-Technology), First Semester  
GS-101: Introduction to Environment Science  
(Common with CSE, Civil and Mechanical)**

**Time allowed: 3 Hours**

**Max. Marks: 50**

*NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.*

x-x-x

- I. Answer the following briefly:-
  - a) What are the principles of environmental education?
  - b) The flow of energy is one way and continuous in an ecosystem. Justify
  - c) What are the units of noise measurement? What are the permissible levels of noise in (i) residential and (ii) hospitals?
  - d) Why COD of sewage is higher than its BOD?
  - e) How does land pollution contribute to water pollution? (5x2)

**UNIT – I**

- II. What is sustainable development? Briefly describe the concept and important pillars of sustainable developments. (10)
- III. Describe the structure and function of ecosystem. (10)
- IV. a) Write a short note on following:-
  - i) Chipko movement
  - ii) Carrying capacity of environment
 b) What are major implications of global warming? (5,5)

**UNIT – II**

- V. a) Mention harmful effects of polluted ground water on soil and plants.
- b) Write various steps to control water pollution. (5,5)
- VI. a) Define solid waste management. Give classification of solid wastes.
- b) What are the rules and regulations guiding waste management in India? (5,5)
- VII. What are the effects of noise at physical, physiological and psychological level?(10)

x-x-x