

- Q-4. (a) Write a note on e-waste and its mitigations. [8]
 (b) Write a note on common air pollutants and their sources and effects on human beings along with their chemical composition. [12]

Section – C

- Q-5. (a) Write a note on solid waste management. [8]
 (b) What is soil pollution? Give a detailed account of its sources, detrimental effects and control. [12]
- Q-6. (a) Write short note on:
 (i) acid rain (ii) climate change [12]
 (b) Discuss Environmental Protection Act and Environmental policies at the national and state level. [8]
- Q-7. (a) Population explosion threatens the global environmental balance: Justify the statement. [8]
 (b) Describe different layers of the atmosphere giving account of lapse rate and constituents of each. [12]
- Q-8. (a) Write short notes on:
 (i) Agro forestry
 (ii) Desertification [8]
 (b) What are the general practices done to ensure water conservation? Explain general measure for rain water harvesting and watershed management. [12]

Roll No.

Lingaya's University
B.Tech 1st Year (Term – III)
Examination – May 2011
Environmental Science & Ecology (CE - 101)

[Time: 3 Hours]

[Max. Marks: 100]

Before answering the question, candidate should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: – Attempt five questions in all. All questions carry equal marks. Question no. 1 (Section A) is compulsory. Select two questions from Section B and two questions from Section C.

Section – A

Q-1. Part – A

Select the correct answer of the following multiple choice questions. [10×1=10]

- (i) Atmospheric pollutants are mainly present in
 (a) Ionosphere
 (b) Stratosphere
 (c) Lower mesosphere and whole ionosphere
 (d) Troposphere and lower stratosphere
- (ii) Carbon trading
 (a) Is a fundamental concept of national environmental laws and regulations?
 (b) Monitors the impact of pollution upon environmental, social and economic justice

- (c) Suggests that funding for environmental improvement should be obtained from its beneficiaries.
- (d) Monitors the emission of hydrocarbon from automobiles
- (iii) Which of the following is a geothermal source of energy?
- (a) Tidal waves (b) Ocean currents
- (c) Gases and hot springs (d) All of the above
- (iv) The names of Baba Amte and Medha Patkar are associated with which protest movements of India?
- (a) Silent Valley Movement
- (b) Narmada Bachao Andolan
- (c) Chipko movement
- (d) All of the above
- (v) The principal pollutant from automobile exhaust is
- (a) Mercury (b) Lead
- (c) Chromium (d) Cadmium
- (vi) The BOD of a pond is high. The pond is
- (a) Highly polluted
- (b) Not polluted
- (c) Without any green vegetation
- (d) None of the above
- (vii) The main cause of the ozone layer depletion in the upper atmosphere in
- (a) SO₂ (b) CH₄
- (c) NO_x (d) NH₃
- (viii) Incineration is the disposal method of
- (a) Water pollutants (b) Air pollutants
- (c) Solid waste (d) All of the above

- (ix) Which of the following is a greenhouse gas?
- (a) Nitrogen (b) Methane
- (c) Oxygen (d) All of the above
- (x) Process of dumping solid waste in a scientifically designated land area is called
- (a) Solid waste disposal (b) Waste dumping
- (c) Sanitary landfill (d) None of the above

Q-1. Part – B

- (a) Write a short note on the functional components of an ecosystem. [5]
- (b) Classify different natural resources and give their account with special reference to India. [5]

Section – B

- Q-2. (a) How does land degradation occur? How can land be conserved? [8]
- (b) Write short notes on the following:
- (i) Tidal energy
- (ii) Geothermal energy
- (iii) Wind energy
- (iv) Biomass energy [12]
- Q-3. (a) Define Biodiversity. How is it related to the availability of genes, species and ecosystem of a region? [8]
- (b) What are the major threats to biodiversity? Write a note on efforts taken for biodiversity conservation. [12]