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B. Tech.
(SEM II) EVEN SEMESTER EXAMINATION, 2015-16
ENVIRONMENT & ECOLOGY

Time: 2 hrs.**Max. Marks: 50****Note:** Attempt ALL questions. Marks and number of parts to be attempted are mentioned in each question.**Attempt all the parts of each question at one place.**

1. Attempt **any four parts** of the following: **[3.5x4=14]**
 - (a) Explain Biodiversity in Indian context. List the different causes that pose threats to biodiversity.
 - (b) Describe the structure, salient features and functions of the ecosystem of a Lake.
 - (c) What are conventional and non conventional sources of energy? Write a note on Biodiesel and its environmental benefits.
 - (d) Giving a neat sketch, explain the different stages in Nitrogen cycle.
 - (e) What are ecological pyramids? Describe the different types of ecological pyramids and food chains.
 - (f) Name and describe the four major regions of atmosphere.

2. Attempt **any two parts** of the following: **[6x2=12]**
 - (a) Enumerate various methods of solid waste disposal? Describe the Composting and Land Filling method of solid waste disposal. What are their advantages and disadvantages?
 - (b) Write a note on the impact of thermal and nuclear power plants on the environment. Suggest remedial measures.
 - (c) (i) What is meant by Sustainable Development? What are important measures to attain Sustainability?
(ii) Enlist the reasons for fast depletion of Ground water. How can ground water level be recharged through rain water harvesting? Explain.

3. Attempt **any two parts** of the following: **[6x2=12]**
 - (a) Write a note on "Indoor Air Pollution". Explain the impact of automobile pollutants on the environment and suggest remedial measures.
 - (b) (i) Discuss the problem of water borne diseases encountered by the developing countries.
(ii) What are the causes for Greenhouse phenomenon? Explain the effects of Global Warming.
 - (c) Write brief notes on:
 - (i) Fluoride problem in drinking water
 - (ii) Ozone layer formation and depletion

4. Attempt **any two parts** of the following: **[6x2=12]**
 - (a) Explain the stages of Environmental Impact Assessment? Why is EIA mandatory for upcoming project?
 - (b) Explain the initiatives taken by the government in formulating laws for environment protection. Discuss the importance of The Environment (Protection) Act, 1986. What are its salient features?
 - (a) Write notes on:
 - (i) Role of NGOs in environment protection
 - (ii) Women education