

I B. Tech II Semester Regular/Supplementary Examinations, April/May - 2019
ENVIRONMENTAL STUDIES

(Com. to CSE, IT, EIE, ECE, E Com E)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question paper consists of two parts (**Part-A** and **Part-B**)
 2. Answering the question in **Part-A** is Compulsory
 3. Answer any **FOUR** Questions from **Part-B**

PART -A

1. a) Explain about Global warming. (2M)
- b) Write about World food problems. (2M)
- c) Define ecosystem diversity. (2M)
- d) What are sustainable life styles? (2M)
- e) Write about Wildlife Protection Act. (2M)
- f) What is EMP? (2M)
- g) Write about Green business. (2M)

PART -B

2. State the different types of aquatic ecosystems. Discuss briefly about each, bringing out their unique characteristics, and the threats to these ecosystems. (14M)
3. Write short notes on the following: (14M)
 - (a) Climatic changes around the world
 - (b) Heat Islands
4. a) What is 'in situ' and 'ex-situ' conservation of biodiversity? Explain briefly about each. (7M)
- b) List out the endangered and endemic species (Birds, Trees and animals) of India. (7M)
5. Describe the sources, effects and methods of control of the following: (14M)
 - (a) Water pollution
 - (b) Noise Pollution.
6. a) Explain about Urban problems related to energy. (7M)
- b) Explain about Forest Conservation Act. (7M)
7. a) How would conduct a survey of solid waste pollution in a town? (7M)
- b) What is Green Belt and explain its importance? (7M)

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PART -A

1. a) What are acid rains? (2M)
- b) Discuss about the conflicts over water. (2M)
- c) Write briefly about value of biodiversity. (2M)
- d) Write about Soil pollution. (2M)
- e) Explain about Resettlement and rehabilitation of people. (2M)
- f) What is EIA? (2M)
- g) Write about Green Politics. (2M)

PART -B

2. a) Explain the Role of information Technology in Environment and human health. (7M)
- b) Explain the characteristic features of Forest ecosystem. (7M)
3. a) Discuss the actions that could serve as solutions to the problem of deforestation. (7M)
- b) List the causes and effects of soil erosion. (7M)
4. a) List the major Pollution control Acts in India. (7M)
- b) Discuss the role and activities of Central Pollution Control Board (CPCB). (7M)
5. Describe the sources, effects and methods of control of the following: (14M)
(a) Air pollution
(b) Noise Pollution
6. a) Explain the Issues involved in enforcement of environmental legislation. (7M)
- b) Explain about rain water harvesting. (7M)
7. Explain the aspects to be studied and the procedure for collecting information when you want to document the environmental features and resource assets of a water resource ecosystem during a field visit. (14M)

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PART -A

1. a) What is acid rain? (2M)
- b) Write on Sustainable Energy resources. (2M)
- c) Write on conservation of biodiversity. (2M)
- d) What are the effects of inorganic substances in water? (2M)
- e) Write briefly on Environmental ethics. (2M)
- f) Write on Disaster Management. (2M)
- g) What are ecological pyramids? (2M)

PART -B

2. a) Explain about the Global Environmental Challenges. (7M)
- b) Discuss about the Energy flow in the ecosystem. (7M)
3. a) Explain the Role of an individual in conservation of natural resources. (7M)
- b) Explain about the environmental effects of extracting mineral resources. (7M)
4. a) Write briefly about the different types of diversity in ecosystems. (7M)
- b) Explain the value of biodiversity and what are the different types of values of biodiversity. (7M)
5. a) Define air pollution and classify major sources of water pollution. (7M)
- b) List the major physiological effects of air pollution on plants and human beings. (7M)
6. a) Explain the Issues involved in enforcement of environmental legislation. (7M)
- b) Explain about rain water harvesting. (7M)
7. How does the class room study varied from the field study in Environmental Studies? Explain out of your experiences. (14M)

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PART -A

1. a) What are Carbon Credits? (2M)
- b) Discuss on soil erosion. (2M)
- c) What are the characteristics of pioneer species? (2M)
- d) What are the different sources of air pollution? (2M)
- e) Write briefly on Wildlife Protection Act. (2M)
- f) Write about Green Campus. (2M)
- g) Write on World food problems. (2M)

PART -B

2. Explain about (14M)
 - (a) Desert ecosystem
 - (b) Aquatic ecosystems
3. a) What is a food chain and food web? Describe the organisms which typically occupy various levels in an ecological pyramid. (7M)
- b) Define Hot-Spots of Biodiversity. Explain their location and significance in India. (7M)
4. a) What are the actions that could serve as solutions to the problem of deforestation? (7M)
- b) What is man induced land-slides? Discuss with examples. (7M)
5. a) Write about Value of biodiversity. (7M)
- b) Explain about India as a mega-diversity nation. (7M)
6. a) Explain the Role of an individual in prevention of pollution. (7M)
- b) Explain the causes and effects of industrial wastes.
7. Discuss the case study of water pollution that you have visited near to your place. (14M)