

**I B. Tech I Semester Regular/Supplementary Examinations, Nov/Dec - 2017****ENVIRONMENTAL STUDIES**

(Com. to CE,ME,CSE,PCE,IT,Chem E, Aero E,AME, Min E,PE,Metal E, Textile Engg)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)  
 2. Answer **ALL** the question in **Part-A**  
 3. Answer any **FOUR** Questions from **Part-B**
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**PART -A**

1. a) What is 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 the role of producers, consumers and decomposers in an ecosystem. (14M)
3. Distinguish between the following: (14M)
  - (a) Grass primary productivity and Net primary productivity.
  - (b) Grazing food chain and Detritus food chain.
4. What are the different types of aquatic ecosystems? Write briefly about each, bringing out their unique characteristics, and the threats to these ecosystems. (14M)
5. (a) How to control thermal pollution in Industries? (7M)
  - (b) Define noise pollution? How noise pollution can be controlled? (7M)
6. What is a watershed? How can watershed management solve the problem of depletion of the ground water table? (14M)
7. (a) Write about the case study of water pollution site that you have visited. (7M)
  - (b) What is the role of river water in the production of agriculture produce in the country like India? (7M)



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1. a) Write briefly about ozone layer depletion. (2M)
- b) What is desertification? (2M)
- c) What are the three types of biodiversity? (2M)
- d) What are gaseous pollutants? (2M)
- e) Write briefly on Forest Conservation Act. (2M)
- f) Write about Green business. (2M)
- g) What is e – waste management? (2M)

**PART -B**

- 2 Define what is forest community. Explain the direct and indirect benefits from forests. (14M)
3. Write note on the economics of timber extraction and JFM programmes with a case study. (14M)
4. Write a detailed note on: (14M)
  - (a) Hotspots of biodiversity.
  - (b) Endemic and endangered species
5. a) List the major Pollution control Acts in India. (7M)
- b) Discuss the role and activities of Central Pollution Control Board (CPCB). (7M)
6. a) Define watershed management and explain its objectives. (7M)
- b) Discuss various water conservation techniques that can be practiced by individuals. (7M)
7. a) How would you conduct a survey of solid waste pollution in a town? (7M)
- b) What is Green Belt and explain the importance of the green belt. (7M)

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**PART -A**

1. a) What are the different ecosystems? (2M)
- b) Write on pesticide problems. (2M)
- c) Define bio diversity. (2M)
- d) Briefly describe about the impacts of carbon monoxide on human health. (2M)
- e) Write briefly on Environmental Protection Act. (2M)
- f) Write about Ecotourism. (2M)
- g) What is land degradation? (2M)

**PART -B**

2. What are the different types of aquatic ecosystems? Write briefly about each, bringing out their unique characteristics, and the threats to these ecosystems. (14M)
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) What is the role of biotechnology with reference to the biodiversity conservation? (7M)
- b) How did the green revolution affect the diversity of food plants? (7M)
5. Describe the Sources, Effects and Methods of control of the following: (14M)  
(a) Sources of water pollution  
(b) Noise Pollution.
6. Write the Aims and objective of `family welfare programmes. Discuss with one example (14M)
7. How does the class room study varied from the field study? Explain out of your experiences. (14M)



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**PART -A**

1. a) What is “acid rains”? (2M)
- b) Write on 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 about Green politics. (2M)
- g) What is 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) What are 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) Explain the Issues involved in enforcement of environmental legislation. (7M)
- b) Explain about rain water harvesting. (7M)
5. a) Explain the effects and control measures of urban and industrial solid wastes. (7M)
- b) Explain about the Impact of Fire Crackers on Men and his well being. (7M)
6. a) What are the powers provided to the central Government by the Environmental Protection Act, 1986? (7M)
- b) Write short note on environmental victims and their rehabilitation. (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)

