

Code No: R161108

**R16**

**SET - 1**

**I B. Tech I Semester Regular/Supplementary Examinations, Oct/Nov - 2018**  
**ENVIRONMENTAL STUDIES**

(Com. Agri E, Auto E, BT, Chem E, CE,EEE,ME,Metal E, PChem E, PE,Aero 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) Define Global warming (2M)
- b) What is Forest ecosystem? (2M)
- c) Write briefly on Land as a resource. (2M)
- d) Write briefly on Hot spots of biodiversity. (2M)
- e) Write briefly on Impact of Fire Crackers on Man. (2M)
- f) Write briefly on Urban problems related to energy. (2M)
- g) Define Green Campus. (2M)

**PART -B**

2. Describe, in the used format, the features of any one ecosystem you have studied during field visit. (14M)
3. Distinguish between the following: (14M)  
(a) Gross primary productivity and Net primary productivity  
(b) Grazing food chain and Detritus food chain
4. a) Distinguish between the endemic and endangered species. (7M)  
b) Discuss the different threats to biodiversity. (7M)
5. a) Explain the control measures of urban and industrial solid wastes. (7M)  
b) Explain the Role of an individual in prevention of pollution. (7M)
6. a) What are the major issues associated with resettlement and rehabilitation? (7M)  
b) Bring out the main elements of water conservation. (7M)
7. a) Explain the different elements of EIA in relation to the Project Cycle. (7M)  
b) Explain the steps involved in planning the baseline data collection for EIA. (7M)



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**PART -A**

1. a) Define climate change. (2M)
- b) What is Grassland ecosystem? (2M)
- c) Define land degradation. (2M)
- d) Write briefly on Threats to biodiversity (2M)
- e) What is the role of an individual in prevention of pollution? (2M)
- f) What is rain water harvesting? (2M)
- g) Define Green business. (2M)

**PART -B**

2. a) Define ecosystem and list components of an ecosystem. (7M)
- b) Briefly explain the manner in which ecosystems are destroyed by human activities. (7M)
3. a) Write a detailed note on the forest ecosystem, bringing out its functions. (7M)
- b) How do forests get degraded and what are the effects of deforestation. (7M)
4. a) Discuss the different ecosystem biodiversities in detail. (7M)
- b) "India a mega diversity nation". Explain in detail. (7M)
5. a) Oceans are ultimate sink for most of the waste we produce. Explain in detail. (7M)
- b) List off shore sources of Marine Pollution. (7M)
6. a) Describe the Water (Prevention and control of Pollution) Act with reference to its implementation and problems. (7M)
- b) What are the urban problems related to energy? (7M)
7. a) Discuss the process of Screening and Scoping as applicable to EIA in Indian context. (7M)
- b) List the criteria to be considered while selecting an EIA Methodologies. (7M)



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**SET - 3**

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Time: 3 hours

Max. Marks: 70

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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**

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**PART -A**

1. a) Define Carbon Credits. (2M)
- b) What is Desert ecosystem? (2M)
- c) What is Wasteland reclamation? (2M)
- d) Write briefly on habitat loss. (2M)
- e) Write briefly on control measures of Air pollution. (2M)
- f) Write on Social Issues in environment. (2M)
- g) Define Green politics. (2M)

**PART -B**

2. a) Write about forest ecosystem. (7M)
- b) Describe the effects of acid rains and ozone layer depletion. (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 phenomenon of Global Warming and the factors contributing to it. (7M)
- b) Explain the possible impacts of Global Warming on the food supply. (7M)
5. Explain in detail about the effects and control measures of urban and industrial solid wastes. (14M)
6. a) What is significance of the term inversion in the dissipation of pollutants in the atmosphere? (7M)
- b) List the meteorological parameters influencing the disposal of air pollutants in the atmosphere. (7M)
7. Describe the systematic approach for the study of soil pollution and its impact on environment. Explain one case study on EIA in Industries. (14M)

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**PART -A**

1. a) Define acid rains. (2M)
- b) What are Aquatic ecosystems? (2M)
- c) Write briefly on man induced landslides. (2M)
- d) What is man-wildlife conflict? (2M)
- e) What is Biomedical waste? (2M)
- f) Write briefly on Environmental ethics. (2M)
- g) Define Ecotourism. (2M)

**PART -B**

2. What are the different activities that can be taken up to increase public awareness of environmental issues? Explain how they help in better environmental management. (14M)
3. a) Describe food chain, food web and ecological pyramids with suitable examples and Diagrams. (7M)
- b) Define what is forest community? Explain the direct and indirect benefits from forests? (7M)
4. a) What are the major development activities which threaten the stability of the environment and what are their effects and problems? (7M)
- b) Write briefly on the use of renewable and non-renewable resources. (7M)
5. a) List the major Pollution control Acts in India. (7M)
- b) Discuss the role and activities of State Pollution Control Board (SPCB). (7M)
6. a) What are Issues involved in enforcement of environmental legislation? (7M)
- b) Write the Urban problems related to energy. (7M)
7. a) Explain about EMP and EIS. (7M)
- b) Write about quality index method for carrying out EIA. (7M)