

I B. Tech I Semester Regular Examinations, December – 2016

ENVIRONMENTAL STUDIES

(Com. to Agri.E, AME, Bio-Tech.E, CHEM, CE, EEE, ME, MTE, MM, PCE, PE, AE)

Time: 3 hours

Max. Marks: 70

Question Paper Consists of **Part-A** and **Part-B**  
Answering the question in **Part-A** is Compulsory  
**Four** Questions should be answered from **Part-B**

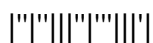
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**PART –A**

1. a) Explain about Stockholm and Rio summit. [2M]
- b) Write about sustainable mining of granite and laterite. [2M]
- c) What are the various types of Biodiversity? [2M]
- d) Explain the effects of oil pollution on the ocean. [2M]
- e) How water is conserved in urban areas? [2M]
- f) Discuss about Ecotourism. [2M]
- g) What is J-curve? Explain. [2M]

**PART -B**

2. a) Define ecosystem. Explain the structure and function of desert ecosystem. [8M]
- b) Explain global warming and climate change. [6M]
3. Bring out the importance of the following natural resources for the sustenance of life and the need to conserve them. [14M]  
i) Forest resources ii) Energy resources
4. a) Discuss the threats to biodiversity which causes its loss. [7M]
- b) Explain about conservation of biodiversity. [7M]
5. a) What are the causes, effects and control measure for noise pollution? [8M]
- b) Explain the role of individual in prevention of pollution. [6M]
6. Explain the main provisions of the following Acts. [7M]  
a) Water (prevention and control of pollution) Act, 1974. [7M]
- b) Forest conservation Act, 1980. [7M]
7. a) Discuss the various stages in the preparation of EMP. [7M]
- b) Explain the concept of green campus with the self-sustaining environment friendly aspects. [7M]



Subject Code: R161108/R16

Set No – 2

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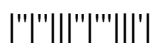
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**PART –A**

1. a) Write about carbon credits. [2M]
- b) Explain equitable use of natural resources. [2M]
- c) What are the various values of Biodiversity? [2M]
- d) List common sources and effects of noise. [2M]
- e) Explain rooftop rainwater harvesting. [2M]
- f) Write about self-sustaining green campus. [2M]
- g) Explain wasteland reclamation. [2M]

**PART –B**

2. a) What are acid rains? What is their impact on environment? [7M]
- b) Explain ecological succession with examples. [7M]
3. Discuss the availability of strategic minerals in AP and bring out the importance of sustainable mining of granite, coal, sea and river sands. [14M]
4. a) What are Hot-spots of biodiversity? Bring out their significance. [6M]
- b) List out the endangered and endemic species (Trees, birds, animals) of India and explain their importance for man for his sustenance. [8M]
5. a) Explain the sources of e-waste and discuss how it is managed to reduce the risk. [8M]
- b) Discuss the impact of fire crackers on man and his wellbeing. [6M]
6. a) Explain the provisions and powers given to the Government under Environmental (protection) Act 1986. [6M]
- b) Discuss the issues involved in enforcement of environmental legislation and how to create public awareness. [8M]
7. a) What is EIS? What are the stages involved? [7M]
- b) Write explanatory notes on the need of green belt to be maintained by any industry you have visited. [7M]



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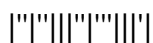
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**PART –A**

1. a) Explain the role of I.T in environment and human health. [2M]
- b) Write about water logging and salinity. [2M]
- c) Give a list of alternative sources of energy. [2M]
- d) Explain the impact of fire crackers on man and his wellbeing. [2M]
- e) List out the problems related to energy in urban areas. [2M]
- f) Write about green business. [2M]
- g) Explain about pesticide problem on agriculture. [2M]

**PART -B**

2. a) Discuss sustainability with reference to global environmental challenges. [7M]
- b) Explain about food chains and food webs. [7M]
3. Explain land as a resource. Discuss how soil erosion causes land degradation and desertification with preventive measures to control. [14M]
4. a) Define biodiversity and explain the classification. [7M]
- b) What are the values of biodiversity? Explain them. [7M]
5. Write Explanatory notes on:
  - a) Urban solid waste [6M]
  - b) Soil pollution. [4M]
  - c) Flood control methods. [4M]
6. Discuss the provisions of the following Acts.
  - a) Wildlife protection Act, 1972. [7M]
  - b) Air (prevention and control of pollution) Act, 1981. [7M]
7. a) What is Environmental Audit? Explain how it is carried out. [7M]
- b) Describe how you would record the elements and resources of an Ecosystem during your field visit. [7M]



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**PART -A**

1. a) Write about effects of population growth in India. [2M]
- b) Explain how timber extraction effects forest resources [2M]
- c) What do you understand by threats to biodiversity? [2M]
- d) What is nuclear hazard? Give two Examples. [2M]
- e) Explain Environmental Ethics. [2M]
- f) Write about green politics. [2M]
- g) Define sustainable development. [2M]

**PART -B**

2. a) Explain the role of I.T. in environment and human health. [8M]
- b) Discuss about grassland Ecosystem. [6M]
3. Discuss how the energy needs are growing and explain the use of alternate sources of energy versus oil and natural gas extraction. [14M]
4. a) Explain biodiversity at national and local levels. [6M]
- b) Discuss why India is a mega- diversity Nation. [8M]
5. a) What are Nuclear hazards? Explain and two case studies of Nuclear accidents. [6M]
- b) Discuss the sources, effects and management of biomedical and hazardous wastes. [8M]
6. a) Explain Resettlement and Rehabilitation of people affected by developmental project with a case study. [8M]
- b) Discuss about water conservation methods in agriculture and irrigation. [6M]
7. a) Write about the significance of EIA and the stages involved. [7M]
- b) Based on your filed visit, summarize your observation and findings of River Ecosystem. [7M]

