

Code No: V0122

R07

SET - 1

II B. Tech II Semester Supplementary Examinations April/May – 2013

ENVIRONMENTAL STUDIES

(Com. to CE, EEE, ME, CSE, EIE, BME, IT, BOT, AME, MM)

Time: 3 hours

Max. Marks: 80

Answer any **FIVE** Questions
All Questions carry **Equal** Marks

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1. a) Why do we say Environmental studies are interdisciplinary? Explain in detail?  
b) What are the factors leading to the increased resource consumption on earth in recent years? Suggest measures to conserve natural resources.
2. a) “Water could be the source of the world’s next big Conflicts” – elaborate and explain?  
b) Describe few important mineral resources of AP and explain the effect of mining of minerals on Environment.
3. a) What are food webs and food chains? Give example and discuss their significances.  
b) Discuss the salient features of an estuarine ecosystem.
4. a) What is extinction of species? Describe the process which leads to extinction of species with examples?  
b) What are “hot-spots” of biodiversity? Discuss in detail some of the hot-spots in India with case study?
5. a) How do you define urban solid waste management? What is Hazardous Waste? Explain its origin of prevention.  
b) Explain natural and man-made disasters. Suggest measures about disaster management.
6. a) What is embodied energy? Explain the concept of urban energy crisis and suggest measures for reducing the crisis  
b) Explain the concept of R & R plan with three case studies.
7. a) “You can tell the condition of a Nation by looking at the status of its women” – Explain and enumerate the status of women with reference to India.  
b) List out the important action plans which are being implemented by the government for the welfare of women & children?
8. a) Describe step by step method of conducting a field visit to River ecosystem.  
b) Prepare a field visit report to a polluted site.

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1. a) Write an explanatory note
 - i) Productive value of nature
 - ii) Aesthetic value of nature
 - iii) The option value of natureb) Define Environment explain the web of life and respect to all form of life.
2. a) Give a list important strategic minerals. Where are the largest supplies of these minerals located in India?
b) What are the Environmental hazards of mineral extraction?
3. a) Explain the concept of structure and functions of an ecosystem.
b) Discuss direct and indirect uses of forest products. What if the forests disappear?
4. Describe the principle behind “Hot spots” of biodiversity. Give a list of some of the Hot spots of India and explain their significance for environmental protection.
5. Discuss the following case studies:
 - a) Bhopal gas leak disaster
 - b) Minimata tragedy
6. a) What is sustainable development? Explain green technology or green manufacturing.
b) Explain ISO 1400 series. Environment management standards.
7. a) What is J - curve? Explain.
b) Discuss the role of family welfare programs in the context of population explosion.
8. Prepare and analyze the type and amount of pollution created by an Industry near your place of residence. Give suggestion for improvement to make the area more environments friendly.

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1. Discuss the recreational value of nature with respect to the following statements:
  - i) A true wilderness experience is an incredible living experience
  - ii) The beauty of nature encompasses every areas of the living and non-living part of our earth
2.
  - a) What is deforestation? Give important reasons of deforestation.
  - b) How do pesticides endanger the life of humans, animals, aquatic biofra, and micro organisms?
3. Write briefly about the following types of ecosystems. Bring out the characteristics and threats to the following ecosystems: i) Marine ecosystem ii) Desert ecosystem iii) grass lands.
4.
  - a) Enumerate the values of biodiversity.
  - b) Discuss the endangered and endemic species of India with particular reference common to plants, animals and bird species.
5. Thermal power plants are deemed essential for generation of electricity but they also produce wastes which are harmful for man and his environment. Elucidate.
6. Why water should be conserved? Explain water conservation methods in irrigation and water conservation in homes kitchen and outdoors.
7.
  - a) Discuss the role of information technology in environment and human health.
  - b) Give the names of two articles under which the constitution of India enshrine the values of environment.
8. Write a detailed note on making the city/town where you live, the clearest city of Indian with reference of measures adopted in Surath, Chandigarh and Curitiba.

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**SET - 4**

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Time: 3 hours

Max. Marks: 80

Answer any **FIVE** Questions  
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1. a) Write a note on importance of education on environmental issues and concerns.
b) Describe the multidisciplinary nature of environmental studies.
2. a) What are the major causes for conflicts over water? Discuss two important rivers disputes with reference to A.P.
b) Give an account of environmental effects of modern agriculture.
3. a) Define and explain the process of ecological succession.
b) What are the theories of succession?
4. a) Discuss the bio-geographical classification of India.
b) Why do you call India as a mega diverse nation?
5. Write the effects and control measures for the following
a) Air pollution
b) Water pollution causes
6. a) What is watershed and Watershed Management? Explain the benefits of watershed Management.
b) What are rain water harvesting techniques?
7. a) What is value education in the context of Environment?
b) What are the major types of water related diseases? How can the risk of these are reduced.
8. a) Describe how you would methodically record the elements and resources in an ecosystem to assess if functioning.
b) Based on your field visit, summarize your observation and findings of water resource ecosystem in your region