

Code No: X0422

**R07**

**SET - 1**

**II B. Tech I Semester Supplementary Examinations May - 2013**

**ENVIRONMENTAL STUDIES**

(Com. to ECE, CHEM, ECC, AE)

Time: 3 hours

Max. Marks: 80

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

1. Discuss the importance of creating awareness about environmental studies in the public and the multidisciplinary nature of environmental studies.
2. a) Compare and contrast between renewable and non-renewable resources.  
b) Explain the environmental impact of industrial development and extensive use of natural resources.
3. a) What do you understand by food chain in an ecosystem?  
b) Give the structure and functions of a grassland ecosystem.
4. a) How do you explain biodiversity at global, national and local levels?  
b) Discuss in-situ and ex-situ conservation measures of biodiversity with suitable examples with reference to India.
5. a) Explain the effects of off-shore and on-shore oil pollution.  
b) Discuss about environmental impact of nuclear pollution and the control measures.
6. a) Briefly describe the various methods of heating and disposal of solid waste for better environment.  
b) What are the various causes and effects of acid rains? Discuss suitable preventive measures.
7. a) Explain the trends with regard to the populous countries in the world and their environmental implications.  
b) Discuss the role of value education and family welfare programs in the control of population explosion for better environment.
8. Write short notes on the following:
  - a) Thermal Pollution
  - b) Green belts
  - c) Ozone depletion
  - d) Deforestation

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**SET - 2**

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**ENVIRONMENTAL STUDIES**

(Com. to ECE, CHEM, ECC, AE)

Time: 3 hours

Max. Marks: 80

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

1. Explain the different areas of environmental conservation to which people belonging to different disciplines can contribute for effective environmental management.
2. a) Discuss the importance of renewable resources against the conventional energy sources as per the growing energy needs.  
b) Discuss in detail the environmental impacts of irrigation and hydro power projects.
3. a) Give the structure and function of the following ecosystems:  
i) Desert ecosystem ii) Forest ecosystem  
b) Briefly explain the manner in which ecosystems are destroyed by human activities.
4. a) Enumerate the value of bio diversity.  
b) Explain the concept of in-situ conservation of biodiversity. Illustrate your answer with suitable examples.
5. a) Discuss the global effects of pollution and suggest suitable control measures.  
b) Discuss the sources, effects and control measures of soil pollution.
6. a) Discuss the impact of nuclear energy sources on environment against conventional thermal power plants.  
b) How do you create public awareness for the protection of environment?
7. a) What are the reasons for differences in the rate of population growth in various countries?  
b) Discuss the role of information technology and value education in environmental studies with relevance to India.
8. Explain in detail about your recent visit to any industrial area and its impact on environment and discuss the various measures to control the pollution levels.

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**SET - 3**

**II B. Tech I Semester Supplementary Examinations May - 2013**

**ENVIRONMENTAL STUDIES**

(Com. to ECE, CHEM, ECC, AE)

Time: 3 hours

Max. Marks: 80

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

1. What are the different activities that can be taken up by individuals to increase public awareness of the present environmental issues? Explain how would they can help in better environmental management.
2. a) Discuss the importance of renewable resources against the conventional energy sources as per the growing energy needs.  
b) Explain in detail about the main causes of deforestation and the control measures.
3. a) Why should natural ecosystems and various forms of species be protected?  
b) How does indiscriminate exploitation of these areas lead to damage?
4. a) What is India's position in the world with respect to biodiversity? Discuss in detail.  
b) What are the different services that are contributed in various ways by biodiversity? Explain about ex-situ conservation of biodiversity in India.
5. Discuss the phenomenon of global warming along with its causes, effects and control measures.
6. a) Discuss about the causes and effects of marine pollution in India and the control measures.  
b) Explain in detail the different ways for safe usage of nuclear energy for the present power crisis.
7. a) Explain briefly the pattern of global population growth in recent years which is causing alarm to environmental experts  
b) Suggest suitable measures for population control and discuss the merits of population control for sustainable life styles.
8. Describe your recent visit to any cosmopolitan city and its impact on environment and discuss the various measures to control the pollution levels.

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**SET - 4**

**II B. Tech I Semester Supplementary Examinations May – 2013**

**ENVIRONMENTAL STUDIES**

(Com. to ECE, CHEM, ECC, AE)

Time: 3 hours

Max. Marks: 80

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

1. a) Explain the need for students from all courses to be aware of environmental issues.  
b) Write briefly about the scope of environmental studies.
2. a) Discuss the importance of renewable resources in the view of depleting natural resources.  
b) Explain the environmental impact of extracting and using mineral resources.
3. a) Describe how you would methodically record the elements and resources in an ecosystem and assess its functioning.  
b) “Fuel powered ecosystems are man’s wealth generating and also pollution generating systems” – Justify.
4. a) Discuss the endangered and endemic species of India with particular reference to common plants, animals and bird species.  
b) Discuss in-situ and ex-situ conservation measures of bio diversity with suitable examples.
5. a) Describe various air pollutants with their characteristics and suggest suitable control measures.  
b) Discuss the impact of nuclear energy sources on environment against conventional thermal power plants for the present power crisis.
6. a) Discuss the importance of sustainable development.  
b) What are the major obstacles in the path of sustainable development in India?
7. a) Explain briefly the pattern of global population growth in recent years which is causing alarm to environmental experts and suggest suitable control measures.  
b) Discuss the importance of Information technology and value education in environmental studies with relevance to India.
8. Write short notes on the following:
  - a) Land slides
  - b) Grassland ecosystem
  - c) Ozone depletion
  - d) Acid rains