

II B.Tech I Semester Regular Examinations, November 2006
ENVIRONMENTAL STUDIES
(Common to Electronics & Communication Engineering, Electronics &
Telematics, Electronics & Computer Engineering and Aeronautical
Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Why should natural ecosystems and various forms of species be protected ? How does indiscriminate exploitation of these areas lead to damage ? [16]
2. Write a brief note on :
 - (a) Non-renewable resources
 - (b) Renewable resources
 - (c) Joint forest management
 - (d) Floods as a serious environmental hazard. [4+4+4+4]
3. (a) What do you understand by food chain in an ecosystem?
(b) How does a complex food web protect the ecosystem from degradation? [10+6]
4. (a) What do you understand by endemic and endangered species ? How are they categorized? Give some examples of such species in India.
(b) List some common plant and animal species of India. [10+6]
5. (a) Oceans are ultimate sink for most of the waste we produce .Explain.
(b) List off shore sources of Marine Pollution.
(c) Explain the effects of oil pollution on the ocean . [8+4+4]
6. (a) Define watershed management and explain the objectives of watershed management ?
(b) Suggest various methods for the improvement of irrigation efficiency by reducing loss due to evaporation
(c) Discuss various water conservation techniques that can be practiced by individuals. [6+4+6]
7. (a) Describe the problems created by the growing population of the earth.
(b) Explain briefly the pattern of global population growth in recent years which is causing alarm to environmental experts. [8+8]
8. Explain the causes and effects of air pollution by describing any urban or industrial area that you have studied. [16]

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1. What is the role played by the following individual environmental thinkers?
 - (a) Indira Gandhi
 - (b) Sunderlal Bahuguna
 - (c) S.P. Godrej
 - (d) Anil Agarwal

[4+4+4+4]
2. (a) What do you understand by biotic and a biotic pouts of nature?
(b) Explain the interaction and interdependency of these.

[6+10]
3. (a) Explain the significance of presening balance in various kinds of ecosystems. Illustrate with examples.
(b) Describe the structure and functions of an ecosystem.

[8+8]
4. (a) Why is it necessary to maintain biodiversity?
(b) What are the different services that are contributed in various ways by biodiversity?

[16]
5. (a) Oceans are ultimate sink for most of the waste we produce .Explain.
(b) List off shore sources of Marine Pollution.
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[8+4+4]
6. (a) Define watershed management and explain the objectives of watershed management ?
(b) Suggest various methods for the improvement of irrigation efficiency by reducing loss due to evaporation
(c) Discuss various water conservation techniques that can be practiced by individuals.

[6+4+6]
7. What are the environmentally related reasons for the occurrence of various types of cancer? How can these be prevented and controlled?

[6+10]
8. What are the problems encountered in the disposal of solid waste from various sources. Describe the outcome of poor management of solid waste, illustrating your answer with any case-study.

[16]

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1. Discuss the aesthetic value of nature with respect to the following statements.
 - (a) A true wilderness experience is an incredible learning experience.
 - (b) The beauty of nature encompasses every aspect of the living and non-living part of our earth. [8+8]
2.
 - (a) What is the necessity for a rational land use policy as part of the environmental policy?
 - (b) Write briefly about the unequal consumption patterns of the developed and developing countries. [8+8]
3.
 - (a) Define ecosystem and list components of an ecosystem.
 - (b) Briefly explain the manner in which ecosystems are destroyed by human activities. [10+6]
4.
 - (a) Why is it necessary to maintain biodiversity?
 - (b) What are the different services that are contributed in various ways by biodiversity? [16]
5.
 - (a) List common sources and effects of noise .
 - (b) Explain the contribution of transport sector towards noise pollution. [8+8]
6.
 - (a) Define watershed management and explain the objectives of watershed management ?
 - (b) Suggest various methods for the improvement of irrigation efficiency by reducing loss due to evaporation
 - (c) Discuss various water conservation techniques that can be practiced by individuals. [6+4+6]
7. Write a detailed note on the pattern of urbanization and the reasons for large migration from rural areas. [16]
8.
 - (a) Describe how you would methodically record the elements and resources in an ecosystem in an ecosystem and assess its functioning.
 - (b) Based on your field visits, summarize your observations and findings of the water resource ecosystem in your region. [8+8]

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Set No. 3

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1. (a) There is a close link between Agriculture and Forest, which illustrates its productive value - explain.
(b) The optional value allows us to use its resources sustainable and preserve its goods and services for the future - explain. [16]
2. (a) Explain show agricultural practices implemented to increase the field from the land lead to formation of unproductive land.
(b) Explain the difference in consumption of resources by the countries of the developing and developed world. [8+8]
3. (a) What do you understand by food chain in an ecosystem?
(b) How does a complex food web protect the ecosystem from degradation? [10+6]
4. (a) Write a brief note on biodiversity and ecosystem diversity.
(b) Explain the evolution of diverse species in an ecosystem. [16]
5. What are the primary treatment techniques for sewage ? Explain. [16]
6. (a) Define watershed management and explain the objectives of watershed management ?
(b) Suggest various methods for the improvement of irrigation efficiency by reducing loss due to evaporation
(c) Discuss various water conservation techniques that can be practiced by individuals. [6+4+6]
7. (a) Tuberculosis is one the environmentally related contagious diseases. Write briefly about the effects of this disease.
(b) What is the extent of spread of this disease in various parts of the globe? [6+10]
8. Explain the causes and effects of air pollution by describing any urban or industrial area that you have studied. [16]
