

Code No: V0122

**R07****SET - 1****II B. Tech II Semester Supplementary Examinations Dec – 2012****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) Discuss the effects of “Exploitation of resources” on man and environment with Special reference to various episodes like Ogallala aquifer, Mad Cow disease, Over grazing, Over milking, Over fishing, Green, Blue and white revolution, Extinction of the Dodo, Mining and Ground water pollution by excessive pumping.  
b) Write briefly about the scope of environmental studies.
2. Explain briefly the following :
  - a) Human Development Index.
  - b) Indicators of the quality of the ecosystem.
  - c) Equitable use of resources for sustainable lifestyle.
3. How do different development activities , including construction of large dams , affect the various aquatic ecosystem and what action need to be taken to conserve them?
4. a) Explain the terms Environment, species and biodiversity. What are the various value of biodiversity? What are the threats of biodiversity? Describe various Insitu and Ex-sit measures of preservation and protection of biodiversity.  
b) What is ‘sustainable Development’? What is a citizen’s role in preserving and protecting the environment?
5. What are the different powers given to the central or state boards under the water act ?
6. Explain about the social value of biodiversity?
7. a) Write a brief note an health hazards related to climatic factor.  
b) What are the infections diseases which have emerged / re-emerged recently and what are the reasons for this ?
8. a) Explain the aspects to be studied and the procedure for collecting information when you want to document the environmental features and resource assets of water resource ecosystem during field visit.  
b) Based on your field visits , summarize your observations and findings of the water resources ecosystem in your region.

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**R07****SET - 2****II B. Tech II Semester Supplementary Examinations Dec – 2012****ENVIRONMENTAL STUDIES**

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1. Explain about the impact of nuclear disaster.
2. Write about energy conservation , at various levels ie, by industry , individuals and institutions.
3. a) Explain about ecosystem  
b) Explain the following terms:  
i) AQUATIC ECOSYSTEM ii) FOREST ECOSYSTEM  
c) What are the activities which disturb the forest ecosystem and what is the outcome of forest degradation ?
4. a) Discuss the following terms :  
i) Productive value of Nature. ii) Optional value of Nature.  
b) What are the major hotspots of biodiversity in our country?
5. a) Oceans are the ultimate sink for most of the waste we produce . Explain.  
b) List the major pollutants in the automobile exhaust and discuss the ways and means to control the same.
6. Explain about the social value of biodiversity.
7. Write short notes on any three of the following :  
a) Rain water harvesting and watershed management  
b) Environmental Acts, Law and Legislation  
c) Human Rights and value of Education  
d) Renewable and Nonrenewable Energy Resources for India especially for villages
8. Explain the causes and effects of air pollution by describing any urban or industrial Area that you have studied.

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**R07****SET - 3****II B. Tech II Semester Supplementary Examinations Dec – 2012****ENVIRONMENTAL STUDIES**

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Time: 3 hours

Max. Marks: 80

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

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1. Write short notes on any five of the following:
  - a) Ogallala aquifer
  - b) Mad Cow disease
  - c) Food scarcity
  - d) Blue revolution
  - e) Extinction of the Dodo
  - f) Salt water intrusion
  - g) Environmental ethics
  - h) Green buildings
2. Write a brief note on:
  - a) Renewable resources and Non-renewable resources.
  - b) Joint forest management.
  - c) Floods as a serious environment hazard.
3.
  - a) Explain the term 'energy cycle' and how the organisms in the ecosystem are dependent on it.
  - b) What is ecological succession? What are the different stages of development of an ecosystem?
4.
  - a) What is biodiversity? What are the various values of biodiversity? What are the threats of biodiversity? Describe various In-situ and Ex-situ measures of preservation and protection of biodiversity.
  - b) What is 'Sustainable Development'? What is a citizen's role in preserving and protecting the environment?
5.
  - a) Define air pollution and classify major source of air pollution.
  - b) List the major physiological effects of air pollution on plants and human beings.
6.
  - a) What are the major issues associated with resettlement and rehabilitation?
  - b) Bring out the main elements of water conservation.
7. Write short notes on any three of the following:
  - a) Chernobyl Disaster vs. Bhopal Tragedy and other episodes
  - b) Rain water harvesting and watershed management
  - c) Renewable and Nonrenewable Energy Resources
  - d) e-waste and biomedical waste management
8.
  - a) Explain the step by step procedure to record and document the features and resource assets of an ecosystem during a field visit.
  - b) Describe, in the format given above, the features of any type of ecosystem you have studied during the field visit.

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**R07****SET - 4****II B. Tech II Semester Supplementary Examinations Dec – 2012****ENVIRONMENTAL STUDIES**

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Time: 3 hours

Max. Marks: 80

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

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1. Write short notes on any five of the following:
  - a) Bionics
  - b) Ecological Pyramid
  - c) Exotics
  - d) Cloning
  - e) Ogallala Aquifer
  - f) Vegetarian meat
  - g) Virtual reality
  - h) Green building
2.
  - a) Explain how the agricultural practices implemented to increase the field form the land, lead to formation of unproductive land.
  - b) Explain the difference in consumption of resources by the countries of developing and developed world.
3.
  - a) Explain the term 'energy cycle' and how the organisms in the ecosystem are dependent on it.
  - b) What is ecological succession? What are the different stages of development of an ecosystem?
4.
  - a) What is biodiversity? What is its significance? What are the threats of biodiversity? Describe various Insitu and Ex-situ measures of preservation and protection of biodiversity.
  - b) What is 'Sustainable Development'? What are carbon credits? What is a citizen's role in preserving and protecting the environment?
5.
  - a) Define air pollution and classify major source of air pollution.
  - b) List the major physiological effects of air pollution on plants and human beings.
6.
  - a) What are the major issues associated with resettlement and rehabilitation?
  - b) Bring out the main elements of water conservation.
7. Write short notes on any three of the following:
  - a) Rain water harvesting and watershed management
  - b) Renewable and Nonrenewable Energy Resources for India especially for villages
  - c) Environmental Acts, Law and Legislation
  - d) Problems and solutions of large dam projects with examples
8.
  - a) Describe how you would methodically record the elements and resources in an ecosystem and assess its functioning.
  - b) Based on your field visit, summarize your observation and findings of the water resource ecosystem in your region.