

Subject Code: R13106/R13

Set No - 1

I B. Tech I Semester Supplementary Examinations Sept. - 2014

**ENVIRONMENTAL STUDIES**

(Common to CE, ME, CSE, PCE, IT, Chem E, Aero E, AME, Min E, PE, Metal E)

Time: 3 hours

Max. Marks: 70

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

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**PART-A**

- 1.(i) Define biodiversity hotspots and on what basis a region is designated as hotspot?
- (ii) What do you know about soil erosion?
- (iii) Write about grassland ecosystem.
- (iv) Write about air pollution.
- (v) Write about productive use of biodiversity.
- (vi) Write about Ecotourism

[5+4+4+3+4+2]

**PART-B**

- 2.(a) Describe the importance of land resources in the development of civilization.
- (b) Write about rain water harvesting. [8+8]
- 3.(a) Write about endangered and endemic species.
- (b) Write short notes on (i) Role of Information Technology (ii) Human rights [8+8]
- 4.(a) What is radioactive pollution? Discuss sources and effects of radiation
- (b) Write about India as a mega diversity nation. [8+8]
- 5.(a) Write about the water (prevention control of pollution) Act,1974
- (b) What is thermal pollution? Explain the sources and its effects on ecosystem. [8+8]
- 6.(a) What are the resettlement and rehabilitation measures you suggest for dam construction?
- (b) Write short notes on living and non-living species of environment. [10+6]
- 7.(a) Write detailed note on field visit to any polluted site and suggest the protective measures
- (b) Write about Habitat loss

[8+8]



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Time: 3 hours

Max. Marks: 70

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

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**PART-A**

- 1.(i) What do you know about conservation of biodiversity.
- (ii) Define environment. What are the components of environment?
- (iii) Explain about nonproductive agricultural activities.
- (iv) Write about water pollution.
- (v) Write about environmental victims of developmental projects and their rehabilitation & resettlement.
- (vi) What is EIA? Explain.

[3+4+4+3+5+3]

**PART-B**

- 2.(a) What are the environmental implications of conventional and non conventional sources of energy?  
(b) Write about desert ecosystem. [10+6]
- 3.(a) Explain the threats to biodiversity. How can they be prevented?  
(b) What are the primary needs of sustainable development? [10+6]
- 4.(a) Write about classification of biodiversity.  
(b) Write detailed note on urban solid waste and it's management. [6+10]
- 5.(a) Explain the Exponential growth of population.  
(b) Explain about consumerism and waste products. [8+8]
- 6.(a) Write about the field visit you have undertaken during the semester?  
(b) Write notes on depletion of ozone layer and its effects. [8+8]
7. Write short notes on  
(i) Ethics and education  
(ii) Renewable and non renewable resources  
(iii) Narmada Bachao Andolan. [5+6+5]



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Set No - 3

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Time: 3 hours

Max. Marks: 70

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

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**PART-A**

- 1.(i) Write about impact of ecological succession on human beings.
- (ii) Briefly describe the role of an individual in the conservation of natural resources.
- (iii) Write about the hotspots of biodiversity.
- (iv) Write about soil pollution?
- (v) What is rain water harvesting? What are the major objectives?
- (vi) What are the various stages of EIA.

[4+4+5+4+3+2]

**PART-B**

- 2.(a) Describe world food problems. Ennumerate the causes and the possible ways to increase world food production.
- (b) Give an account of municipal solid waste management. [8+8]
- 3.(a) Define ecosystem. Explain the structure and function of an ecosystem.
- (b) Write about values of biodiversity [10+6]
- 4.(a) Write a note on wind energy
- (b) Why public should have awareness about environmental acts. [8+8]
- 5.(a) Write about environmental ethics.
- (b) Write about In-situ and Ex-situ conservation of biodiversity. [6+10]
- 6.(a) Describe the steps in the preparation of environment management plan (EMP)?
- (b) Explain the role of chlorofluorocarbons (CFCs). [8+8]
- 7.(a) Write short notes on nuclear hazards and accidents?
- (b) Write field visit report on forests, hilly areas and rivers. [6+10]



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Set No - 4

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Time: 3 hours

Max. Marks: 70

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

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**PART-A**

- 1.(i) What is deforestation? Give main causes of deforestation.
- (ii) What is nutrient cycling? What is the significance of decomposers in nature?
- (iii) Give an account of consumptive use of biodiversity.
- (iv) Write about noise pollution.
- (v) Give a brief account of environmental ethics.
- (vi) What is environmental audit?

[4+4+4+4+3+3]

**PART-B**

- 2.(a) What is soil erosion? What are its causes? How can soil be conserved?  
(b) Write short notes on biomedical waste. [8+8]
- 3.(a) "India - a mega diversity nation" Explain.  
(b) Describe food chain and food web with examples [10+6]
- 4.(a) Write an essay on air pollution, causes, effects and control measures.  
(b) Write about ecological succession. [10+6]
- 5.(a) Write about threats to biodiversity  
(b) Write about wild life protection act? [8+8]
- 6.(a) Write about mineral resources of India.  
(b) Write in detail about EMP and EIS. [8+8]
7. Write short notes on  
(i) Bhopal gas tragedy  
(ii) Geo-thermal energy  
(iii) Estuaries [5+6+5]

