

**Subject Code: R13106/R13****Set No - 1****I B. Tech I Semester Regular/Supplementary Examinations Jan./Feb. - 2015****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) Give various ecological levels of organization in ascending order.
- (ii) Explain the concept of food chain.
- (iii) What are the methods of conserving water resources?
- (iv) Explain what is meant by genetic diversity?
- (v) What do you know about ocean water pollution?
- (vi) Write explanatory notes on ozone hole.

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

**PART-B**

2. (a) What is biodiversity. What is its significance?
- (b) What is the role of the citizen in preserving and protecting the environment?  
What is sustainable life style?  
[8+8]
3. (a) Describe various renewable sources of energy.
- (b) Give the salient features of a pond ecosystem.  
[8+8]
4. (a) Discuss the ways in which land is degraded. Suggest the steps to check land degradation.
- (b) What is the role of information technology in environment and human health.  
[8+8]
5. Write about  
(a) Resettlement and rehabilitation  
(b) Endangered and Endemic species.  
(c) Various stages of EIA  
[6+5+5]
6. (a) Discuss the causes and effects of global warming
- (b) Discuss the role of 3 R s-Reduce, Reuse and Recycle in pollution control and environmental conservation.  
[8+8]
7. Prepare a field report on the visit of a polluted river site.  
[16]

**Subject Code: R13106/R13****Set No - 2****I B. Tech I Semester Regular/Supplementary Examinations Jan./Feb. - 2015****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) Differentiate between primary succession and secondary succession.
- (ii) What are the methods of conserving soil erosion.
- (iii) Differentiate between a national park and sanctuary.
- (iv) Mention the causes of smog and acid rain.
- (v) What is forest conservation act?
- (vi) Write about environmental audit.

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

**PART-B**

2. (a) Define biodiversity. How is, diversity at various levels generally conserved.
- (b) Write about producers, consumers and decomposers. [8+8]
3. (a) What are mineral resources? How can mineral resources be conserved?
- (b) What are the global effects of air pollution? Discuss the sources and effects of ozone holes and acid rains. [8+8]
- 4.(a) Discuss the causes and effects of global warming
- (b) Write about Aquatic ecosystem [8+8]
5. (a) Discuss the role of 3 R s-Reduce, Reuse and Recycle in pollution control and environmental conservation.
- (b) What is the role of an individual in conservation of natural resources? [8+8]
6. Write short notes on  
(a) Extinction of species  
(b) Nuclear hazards  
(c) Composting  
(d) Green belts [4+4+4+4]
7. Prepare a field report to the visit to a Mountain ecosystem. [16]

**Subject Code: R13106/R13****Set No - 3****I B. Tech I Semester Regular/Supplementary Examinations Jan./Feb. - 2015****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) Write about chipko movement.
- (ii) What are ecological pyramids? Write about different types of pyramids
- (iii) Write about species biodiversity.
- (iv) Write about Bhopal gas tragedy. It is what type of pollution?
- (v) What is EIA?
- (vi) Write about water logging and salinity.

[4+4+4+4+2+4]

**PART-B**

2. (a) Explain the significance of biomass energy.
  - (b) Write about desert ecosystem and forest ecosystem.
- [6+10]
3. What is noise pollution? Discuss the sources and effects of noise pollution. How can noise pollution be controlled?
- [16]
4. (a) What is Environmental audit? Explain.
  - (b) What is ex-situ and in-situ conservation of biodiversity?
- [4+12]
5. Write short notes on
    - (a) CFC's
    - (b) EMP
    - (c) Rain water harvesting
    - (d) Food chains and food webs
- [4+4+4+4]
6. (a) What are waste lands? What are the means of their conservation?
  - (b) Distinguish between renewable and non- renewable resources
- [8+8]
7. (a) Mention the different environmental acts and write about one.
  - (b) Discuss about Environmental ethics and issues connected there on.
- [8+8]

**Subject Code: R13106/R13****Set No - 4****I B. Tech I Semester Regular/Supplementary Examinations Jan./Feb. - 2015****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) What are the issues involved in enforcement of environment legislation.
- (ii) Explain what is meant by ecosystem diversity?
- (iii) Write about man and wild life conflicts.
- (iv) Write about Rio summit.
- (v) What is Water act?
- (vi) Write about energy flow in ecosystem.

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

**PART-B**

2. (a) What is meant by ozone shield? How CFC's and ozone depleting substances affect ozone shield?
- (b) What is deforestation? What are the causes of deforestation?
- [8+8]
3. (a) Why should public have awareness about Environmental protection acts?
- (b) Write about acid rains.
- (c) Write about population growth, explosion and effects.
- [5+5+6]
4. "India a mega diversity nation" - Explain
- [16]
5. (a) Write about EMP and EIS.
- (b) What is the role of an individual in conservation of natural resources?
- (c) What are man induced landslides? Explain how they can be prevented.
- [4+5+7]
6. Write short notes on
  - (a) Ecological succession
  - (b) Desertification
  - (c) Food chains and food webs.
- [5+5+6]
7. (a) Mention about different types of pollution briefly.
- (b) Discuss about use and over utilization of surface and ground water.
- [6+10]