

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**

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]



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Set No - 2

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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**

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]



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Set No - 3

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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**

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]



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Set No - 4

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ENVIRONMENTAL STUDIES

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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**

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]

