

II B. Tech I Semester Regular Examinations, Jan - 2015
ENVIRONMENTAL STUDIES
 (Com. to ECE, EIE, ECC)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
 2. Answer **ALL** the question in **Part-A**
 3. Answer any **THREE** Questions from **Part-B**

PART – A

1. a) What is greenhouse effect?
- b) What is a food chain?
- c) Mention two reasons for floods.
- d) Mention hotspots of biodiversity in India.
- e) What is the pollutant responsible for Bhopal gas tragedy?
- f) What is meant by bio-medical waste?
- g) What is the purpose of rainwater harvesting?
- h) What is EIA? (2M+3M+3M+3M+2M+3M+3M+3M)

PART – B

2. a) What are the various global impacts of air pollution?
 b) Explain the structure of an ecosystem. (8M+8M)
3. a) Write the causes and consequences of deforestation.
 b) Distinguish between renewable and non-renewable energy resources. (8M+8M)
4. a) Define species, genetic, and ecosystem diversity.
 b) Explain the various values of biodiversity. (8M+8M)
5. a) Write the sources and effects of water pollution on human health.
 b) Explain the role of an individual in prevention of pollution. (8M+8M)
6. Write the salient features of Environmental protection act. (16M)
7. What is EIA? How is it accomplished? (16M)



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PART – A

1. a) What is acid rain?
 b) What is the importance of food web?
 c) Define biomagnifications.
 d) Mention insitu conservation measures of biodiversity
 e) What is fluorosis?
 f) Define hazardous waste.
 g) Define water pollution.
 h) What is Draft EIS? (2M+3M+3M+3M+2M+3M+3M+3M)

PART – B

2. a) What is sustainable development? Write the strategies for sustainable development.
 b) What are ecological pyramids? Explain. (8M+8M)
3. a) What are the impacts of mining on forests and tribal people?
 b) Explain the role of an individual in natural resources conservation. (8M+8M)
4. a) Explain the threats to biodiversity.
 b) Write the ex-situ and in-situ conservation measures of biodiversity. (8M+8M)
5. a) Distinguish between primary and secondary air pollutants.
 b) Define noise. Write in detail noise pollution control measures. (8M+8M)
6. Write the salient features of The Forest conservation act. (16M)
7. Explain EIA methodologies. (16M)



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PART – A

1. a) Mention the pollutants responsible for depletion of ozone layer.
- b) Distinguish between lentic and lotic ecosystems
- c) Define soil erosion
- d) What is meant by genetic diversity?
- e) Give the drinking water standard for nitrates. What is mathemoglobinaemea?
- f) What is e-waste?
- g) Define air pollution
- h) What is environmental impact analysis? (2M+3M+3M+3M+2M+3M+3M+3M)

PART – B

2. a) Explain the multidisciplinary nature of environmental studies.
- b) Distinguish between food chain and food web.give examples. (8M+8M)
3. a) Explain the environmental impacts of major dams.
- b) What are the merits and demerits associated with nuclear energy. (8M+8M)
4. a) Define biodiversity. What are its values?
- b) Explain conservation of biodiversity. (8M+8M)
5. a) What is solid waste management? Explain.
- b) Define air pollution. What are its impacts on human health? (8M+8M)
6. Write the salient features of The Water prevention and control of pollution act. (16M)
7. Write short notes on
 - a) environmental audit
 - b) Cost benefit analysis and
 - c) Adhoc method (16M)



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PART – A

1. a) Define sustainable development
 b) What are producers?
 c) What is meant by desertification?
 d) Mention ex-situ measures of biodiversity conservation.
 e) What is temporary threshold shift?
 f) Define solid waste management.
 g) Mention few water conservation measures.
 h) Write two environmental impacts of mining. (2M+3M+3M+3M+2M+3M+3M+3M)

PART – B

2. a) What are the functions of an ecosystem? Explain.
 b) What is global warming? What are its impacts? (8M+8M)
3. a) What are the impacts of modern agriculture?
 b) Explain reasons for land degradation. (8M+8M)
4. a) Explain the principle “To live and to let live”
 b) What are hotspots of biodiversity in India? Explain insitu conservation of biodiversity. (8M+8M)
5. a) What is solid waste? What are its components and characteristics?
 b) Write the impacts of water pollution on human health. (8M+8M)
6. Write the salient features of The Air prevention and control of pollution act. (16M)
7. Write short notes on
 a) Checklist method b) Public hearing and c) Importance of forests (16M)

