

II B. Tech II Semester Regular Examinations, May/June - 2015**ENVIRONMENTAL STUDIES**

(Electrical and Electronics Engineering)

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**
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PART-A

1. a) What are Green house gases? How are they responsible for global warming?
 b) What are Food Pyramids?
 c) Mention the merits of Solar Energy
 d) What is Eutrophication?
 e) Define the term 'bio-diversity'
 f) What is Noise? What are the CPCB standards of day time noise levels at silence zones
 g) What is Fluorosis?
 h) Define the term 'Environment' (3M+3M+3M+3M+2M+3M+2M+3M)

PART-B

2. a) What is Sustainable development? What are the strategies for Sustainable development?
 b) Define Ecosystem. Give the classification of Ecosystem (10M+6M)
3. a) What are the causes and consequences of deforestation
 b) Distinguish between Renewable and Non-renewable resources (10M+6M)
4. a) What is meant by generic, species and ecosystem diversity
 b) Explain In-situ and Ex-situ measure of conservation of biodiversity (6M+10M)
5. a) Explain the role of an individual in prevention of pollution
 b) Write short note on Solid waste management (10M+6M)
6. a) "Man cannot command nature except by obeying it". Explain
 b) Write the salient features of The Air (Prevention and Control of Pollution) Act (8M+8M)
7. Write short notes on
 - a) Environmental Impact Statement
 - b) Environmental Audit
 - c) Checklist method (6M+6M+4M)

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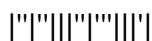
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**PART-A**

1.
  - a) Define the term Environment
  - b) What is acid rain?
  - c) Distinguish between renewable and non-renewable resources
  - d) What are Hot-spots of biodiversity in India?
  - e) Mention few natural sources of air pollution
  - f) Define the term Water pollution as per The Water Act, 1974
  - g) What is EIA?
  - h) Mention the aesthetic value of biodiversity (2M+3M+3M+3M+2M+3M+3M+2M)

**PART-B**

2.
  - a) What is the importance of Environmental education?
  - b) Explain the structure and functions of an Ecosystem (6M+10M)
3.
  - a) Write the impacts of mining on forests
  - b) What are the non-conventional sources of energy? Write their merits (6M+10M)
4. Define the term bio-diversity. Describe the In-situ and Ex-situ measures of bio-diversity conservation (16M)
5.
  - a) Explain the impacts of Air Pollution on human and plant
  - b) Write short notes on Nuclear hazards (10M+6M)
6.
  - a) Write the salient features of The Forest Conservation Act
  - b) The principle of living is "To live and Let live ". Explain (10M+6M)
7. Write short note on
  - a) Environmental audit
  - b) Draft EIS
  - c) Primary and Secondary Impacts (6M+4M+6M)



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**PART-A**

1. a) What is sustainable development?  
b) Distinguish between producers and consumers  
c) Define bio-magnification  
d) Mention the agents responsible for soil erosion  
e) What are the threats to bio-diversity?  
f) What is garbage? What is the best method of disposal of garbage from hotels?  
g) What is rain-water harvesting?  
h) Write the difference between Draft EIS and final EIS

(3M+3M+3M+2M+2M+3M+3M+3M)

**PART-B**

2. a) What are the Global Environmental challenges? Explain  
b) Distinguish between Food chain and Food web (10M+6M)
3. a) Write the benefits and problems associated with dams  
b) What is sustainable development? What are the strategies for sustainable development? (6M+10M)
4. a) What are the values of bio-diversity?  
b) Explain the measures of bio-diversity conservation? (8M+8M)
5. a) What is Solid waste management? Explain briefly.  
b) What are water-borne diseases? Explain water as a vehicle of disease transmission (8M+8M)
6. a) "Nature has for man's needs but not for man's greed's ". Explain  
b) Write the salient features of Wild life Protection Act (10M+6M)
7. Write short note on  
a) EIA methodologies  
b) Ecotourism  
c) Public Hearing (8M+4M+4M)

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PART-A

1. a) Mention the global impacts air pollution
 b) Define the term Ecosystem
 c) Mention two flood control measures
 d) What is meant by desertification?
 e) Define genetic biodiversity
 f) Mention the pollutant responsible for Bhopal gas Tragedy
 g) Distinguish between composting and very-composting
 h) What is Draft EIS? (3M+3M+2M+3M+3M+3M+3M+2M)

PART-B

2. a) What is man's impact on Environment?
 b) Explain Forest Ecosystem (8M+8M)
3. a) What are the effects of modern agriculture?
 b) Explain the role of an individual in conservation of natural resources (8M+8M)
4. a) What is biodiversity? What are the threats to bio-diversity?
 b) Describe India as a mega diversity nation (8M+8M)
5. a) What is noise? What are the auditory effects and non-auditory effects
 b) Explain the reduction, recycling, reuse and recovery principles of solid waste management (8M+8M)
6. a) Write the impacts of mining and dams on forests and Tribal people
 b) Write the salient features of The Water Act (8M+8M)
7. Write short note on
 a) Adhoc method
 b) Cost benefit analysis
 c) Safety audit (5M+6M+5M)

