

II B. Tech I Semester Regular/Supplementary Examinations, Oct/Nov - 2016
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 meant by food chain? (3M)
- b) List the effects of deforestation. (4M)
- c) What is meant by the term Biopiracy? (3M)
- d) Differentiate between smog and photochemical smog. (4M)
- e) Classify the rainwater harvesting methods. (4M)
- f) What are the objectives of Environmental impact assessment? (4M)

PART -B

2. a) List the major urban environmental issues in India. (8M)
- b) Explain the functioning of hydrological cycle. (8M)
3. a) Write about Mineral Resources in detail. (8M)
- b) Explain about the use and over utilization of surface and ground water (8M)
4. a) Write about the "India as a mega and diversity nation". (8M)
- b) Explain about conservation of Biodiversity (8M)
5. Explain about causes, effects and control measures of Air pollution? (16M)
6. a) Suggest various methods for the improvement of irrigation efficiency by (8M)
reducing loss due to evaporation.
- b) Write the issues related to enforcement of environmental legislation (8M)
7. What is significance EIA and various stages of EIA. (16M)

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PART -A

1. a) What are ecological pyramids? (4M)
- b) Write a short notes on the mineral resources of India. (4M)
- c) Define the term Hotspot in Biodiversity. (4M)
- d) Define Marine pollution. (3M)
- e) What is acid rain? (4M)
- f) Write the key elements of EIA. (3M)

PART -B

2. a) Explain the components of environment and their major interactions. (8M)
- b) Compare the flow of energy and nutrients through an ecosystem. (8M)
3. Write about Food resources, World food problems and effects of modern agriculture. (16M)
4. a) Write about the Hot spots of Biodiversity in detail. (8M)
- b) Explain about the threats of Biodiversity (8M)
5. Explain about causes, effects and control measures of Water Pollution. (16M)
6. Write in detail about the water (Prevention and Control of Pollution) Act, 1974. (16M)
7. What is significance of EMP and various stages of EMP. (16M)



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PART -A

1. a) What are pioneer species? (3M)
- b) What is geothermal energy? (4M)
- c) Explain the term Endemic Species with examples. (4M)
- d) Define noise. (3M)
- e) List the major pollution control acts in India. (4M)
- f) What are the possible avenues in which NGOs can contribute to the cause of environmental protection? (4M)

PART -B

2. a) Explain the possible impacts of ozone depletion on the ecosystem. (8M)
- b) Explain the components and functions of a forest ecosystem. (8M)
3. Write about renewable and non renewable energy resources. (16M)
4. a) Write about the values of Biodiversity in detail. (8M)
- b) Explain about Endangered and endemic species of India (8M)
5. Explain about causes, effects and control measures of Soil Pollution. (16M)
6. Write in detail about The Air (Prevention and Control of Pollution) Act, 1981. (16M)
7. What is the significance of EIS and various stages of EIS. (16M)

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PART -A

1. a) Why decomposers are called 'micro consumers'? (4M)
- b) Define the term "Desertification". (3M)
- c) Define biodiversity. (4M)
- d) Define the Municipal solid waste. (4M)
- e) What are the principal functions of central pollution control board? (4M)
- f) List the different types of impact assessments possible. (3M)

PART -B

2. a) Explain the components and functions of a Grass Land ecosystem. (8M)
- b) Explain the role of renewable energy sources in achieving a sustainable energy base. (8M)
3. Write about the land resources, waste land reclamation and man induced land slides (16M)
4. a) Write about the Endangered and Endemic species of India in detail. (8M)
- b) Explain about man-wild life conflicts (8M)
5. Explain about causes, effects and control measures of Noise Pollution. (16M)
6. Write in detail about The Environment (Protection) Act, 1986. (16M)
7. What are significance and various stages Environmental audit and Ecotourism? (16M)
