

Hall Ticket No:

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Question Paper Code :

**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(AUTONOMOUS)**

B. Tech I Semester Regular Examinations November - 2015

(Regulations: R15)

ENVIRONMENTAL SCIENCE

Date:

Time: 3 hours

Max Marks: 60

Answer ONE Question from each Unit

All Questions Carry Equal Marks

All parts of the question must be answered in one place only

Unit - I

1. a) What are renewable and non-renewable resources? Give examples? 4M
b) How would environmental awareness help to protect our environment? 8M

Or

2. a) What are the major causes of deforestation? 4M
b) Mention the environmental impacts of modern agriculture? 8M

Unit - II

3. a) Discuss the models of energy flow in an ecosystem? 4M
b) What is Homeostasis? What are the feedback mechanisms? 8M

. Or

4. a) Comment upon Indian Biodiversity with special reference as a mega diversity nation? 4M
b) What is meant by insitu and exsitu conservation of Biodiversity? Give Examples? 8M

Unit - III

5. a) Mention some major implications of enhanced global warming? 4M
b) Enumerate the various methods for control of air pollution? 8M

Or

6. a) What are the major impacts of acid rains and how can we control it? 4M
b) Classify solid waste? What are the sources of urban and industrial solid wastes? 8M

Unit – IV

7. a) Define EIA? Mention some advantages? 4M
b) What do you mean by sustainable development? What are the major measures to attain sustainability? 8M

Or

8. a) What is meant by Population explosion? Discuss the Indian scenario? 4M
b) What is Rainwater harvesting? Mention the purposes served by it? 8M

Unit - V

- 9 a) Describe briefly about Silent valley project? 4M
b) Discuss the salient features of Wildlife(Protection) Act, 1972? 8M

Or

- 10 a)Write a short note on Stockholm Conference? 4M
b) How do you define pollution as per Water (Prevention and Control of Pollution) Act, 1974? Mention some salient features of the Act? 8M

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UNIT-I

1. a) i) What is an aquifer? Mention its types? 2 M
ii) Mention the causes of deforestation. 2 M
b) How would environmental awareness help to protect our environment? 8 M

(OR)

2. a) i) Give the consequences of desertification 2 M
ii) Distinguish between renewable and non renewable energy sources? 2 M
b) What is soil erosion? Explain soil conservation practices. 8 M

UNIT-II

3. a) i) Define ecology and ecosystem? 2 M
ii) What are ecological pyramids? 2 M
b) What are food chain and food webs? Give examples and discuss the significance. 8 M

(OR)

4. a) i) Define Hot spot? Give example 2 M
ii) List out endangered and endemic species? 2 M
b) What is biodiversity? Mention the values of biodiversity? 8 M

UNIT-III

5. a) i) Define Eutrophication? 2 M
ii) What are the adverse effects of thermal pollution? 2 M
b) Briefly describe the sources, effects, control measures of air pollution? 8 M

(OR)

6. a) i) How Vermicomposting can be done? 2 M
ii) What are the sources of e-Waste? 2 M
b) What adverse effects can solid waste cause? How can solid waste be managed? 8 M

UNIT-IV

- 7 a)i) What is EIA ? Mention the benefits? 2 M
ii) Discuss the objectives of rain water harvesting 2 M
b) What do you mean by Sustainable Development? What are the major measures to attain sustainability? 8M

(OR)

- 8 a)What meant by population explosion? Discuss the Indian scenario? 4 M
b) What are the major issues and problems related to resettlement and rehabilitation of the displaced people? 8 M

UNIT-V

- 9 a) Mention the duties and powers of CPCB? 4 M
b) Discuss the salient features of i) Wild life protection Act ii) Forest conservation Act 8M

(OR)

- 10 a) Discuss the features of Johannesburg summit. 4 M
b) Write note on i) Stockholm conference ii) Ralligonsiddhi 8M