

(Following Paper ID and Roll No. to be filled in your Answer Book)

Paper ID : 199105

Roll No.

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B. Tech.

(SEM. I) THEORY EXAMINATION, 2015-16

ENVIRONMENT & ECOLOGY

[Time:3 hours]

[Maximum Marks : 100]

Section - A

1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2x10=20)
- What do you understand by the term "Biotic and Abiotic" with examples?
 - Explain the term "Pollutant". Give examples.
 - What is Bio-accumulation?
 - Define Food Chain with example.
 - Define BAP and its source.
 - What is Urban-Sprawling?
 - Explain flood and its main cause.

- (h) Define Air Prevention Act.
- (i) What is migration and its types ?
- (j) Differentiate between photoautograph and chemoautograph.

SECTION - B

Note: Attempt **any five** questions from this section : (10x5=50)

2. Define ecological pyramids and their types. Explain food web with appropriate examples.
3. What are the different ways to restore the damage of ecosystem ? Explain In-situ approach for conservation of ecosystem.
4. Explain different sources of water pollution. How water pollution affect the marine life ?
5. What are the different effects of air pollution on human, plants and materials ?
6. Define Urban-Sprawling and positive and negative effects of urbanization.
7. Draw and explain Nitrogen Cycle. Explain Nitrification and de-nitrification process.
8. Explain the need of education for controlling the pollution. What are bio-indicator and their types ?

9. What are the different roles of individual for controlling different kinds of pollution ?

SECTION - C

Note: Attempt **any two** question from this section : (15x2=30)

10. (a) Explain source, cause and effect of acid rain. How it can be controlled ?
(b) Explain the need and functions of NGO's for pollution control.
11. (a) Define ecosystem, its structure concept and function with examples.
(b) Explain the principle and working of solar cell with diagram.
12. Explain :
(a) Tuberculosis
(b) Wet-scrubber.

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