

(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)
 - (a) What do you understand by the term "Biotic and Abiotic" with examples ?
 - (b) Explain the term "Pollutant". Give examples.
 - (c) What is Bio-accumulation ?
 - (d) Define Food Chain with example.
 - (e) Define BAP and its source.
 - (f) What is Urban-Sprawling ?
 - (g) Explain flood and its main cause.

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

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 affects 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-indicators 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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