

(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 th 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 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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