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B.TECH
(SEM-II) THEORY EXAMINATION 2017-18
ENVIRONMENT & ECOLOGY

Time: 3 Hours**Total Marks: 100****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x 10 = 20**

- a. Enumerate the term ecology and ecosystem.
- b. What do you mean by α , β , γ diversity?
- c. Define the term biogeochemical cycles?
- d. Classify the natural resources.
- e. What do you mean by rill and gully erosion?
- f. Name the gas produced from biogas.
- g. What are the main causing agents of Eutrophication of water bodies?
- h. What do you mean by point and diffused source of water pollution
- i. Differentiate between nuclear fusion and fission reaction.
- j. Write the permissible limit of fluoride in drinking water.

SECTION B**2. Attempt any three of the following: 10 x 3 = 30**

- a. Define the term environment. Write a note on atmospheric segments with neat sketch. Discuss the main activities taking place in each of them.
- b. What do you mean by balanced ecosystem? Describe the main components of ecosystem with suitable examples.
- c. Classify solid wastes? Discuss various disposal methods with merits and demerits
- d. Classify the smog and discuss the reaction behind smog formation.
- e. What do you mean by the term EIA? Describe the various steps used in EIA process

SECTION C**3. Attempt any one part of the following: 10 x 1 = 10**

- (a) What are the major threats of biodiversity? Discuss the strategies for biodiversity conservation.
- (b) How hydrogen act as an alternative source of energy. Discuss the mechanism of hydrogen fuel cell with advantage and disadvantage.

4. Attempt any one part of the following: 10 x 1 = 10

- (a) Discuss the unidirectional flow of energy with suitable diagram.
- (b) Discuss various steps involved in carbon cycle. Draw a neat sketch of carbon cycle and define the role of carbon sinker.

5. Attempt any one part of the following: 10 x 1 = 10

- (a) Discuss the phenomenon of global warming. How it poses adverse effect on surrounding.

- (b) Why acid rain occurs. Discuss the various effects of acid rain on surroundings. Suggest remedial measures to control acid rain.

6. Attempt any *one* part of the following: 10 x 1 = 10

- (a) Discuss the source of water pollutants? Define the various step used in waste water treatment plant.
- (b) Discuss the term disaster management. Write a note on flood and its control.

7. Attempt any *one* part of the following: 10 x 1 = 10

- (a) What are the major objectives of NGO? Discuss the main function of NGO in the field of environment.
- (b) Write a detail note on environmental pollution act with its objectives.