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Sub Code: RAS 302

Paper ID: 9020

**B.Tech.**  
**(SEM III) THEORY EXAMINATION 2017-18**  
**Environment & Ecology**

Time: 3 Hours

Total Marks: 70

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

1. Attempt *all* questions in brief. 2 x 7 = 14

- a. Define the term environment.
- b. What is fluorosis?
- c. What is soil erosion?
- d. What are the various sources of water in nature?
- e. What are pollutants? How can they classify?
- f. What is Food web?
- g. Name the ecological pyramid, which cannot be inverted.

**SECTION B**

2. Attempt any *three* of the following: 7 x 3 = 21

- a. Explain water related diseases. Discuss in details water borne and water induced diseases.
- b. What is deforestation? Enumerate and discuss the various causes of forestation.
- c. What is ecosystem? How many components it have? How does energy flow in an ecosystem?
- d. What do understand by non conventional energy resources? Discuss the solar energy in details.
- e. What is green house effect? What are green house gases? How it is correlated with global warming?

**SECTION C**

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

- a. What is air pollution? Discuss its causes, effects and its remedial measures.
- b. What are the main causes & effects of water pollution? How can water pollution be controlled?

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

- a. Why do we refer Environmental Protection Act, 1986 as an Umbrella Act? Discuss the Environmental Protection rules, 1986.

- b. What do you understand by sustainable development? Discuss its various elements and goal.

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

- a. Explain the role of NGOs in environmental protection.  
b. What do you understand by Environment Impact Assessment? What are various segments of propagation in it?

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

- a. Explain in detail Carbon and nitrogen cycle  
b. What are effects of transportation & agricultural activities on environment?

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

- a. Write in brief about electromagnetic radiation & hydrogen as the alternate future fuel.  
b. What is the importance of environmental education and woman education in India?