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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.

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- 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

- Explain the role of NGOs in environmental protection.
- 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

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

7. Attempt any *one* part of the following:

7 x 1 = 7

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