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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**

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

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

- Explain water related diseases. Discuss in details water borne and water induced diseases.
- What is deforestation? Enumerate and discuss the various causes of forestation.
- What is ecosystem? How many components it have? How does energy flow in an ecosystem?
- What do understand by non conventional energy resources? Discuss the solar energy in details.
- 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**

- What is air pollution? Discuss its causes, effects and its remedial measures.
- 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**

- 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?

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