

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 ^{deforestation} 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: <https://www.aktuonline.com> 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?