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**NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA**

**(An Autonomous Institute Affiliated to AKTU, Lucknow)**

**B.Tech**

**SEM: IV - THEORY EXAMINATION - (2023- 2024)**

**Subject: Environmental Science**

**Time: 2 Hours**

**Max. Marks: 50**

**General Instructions:**

**IMP:** Verify that you have received the question paper with the correct course, code, branch etc.

1. This Question paper comprises of **three Sections -A, B, & C**. It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.
2. Maximum marks for each question are indicated on right -hand side of each question.
3. Illustrate your answers with neat sketches wherever necessary.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.
6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

**SECTION-A**

15

1. Attempt all parts:-

- 1-a. The part of atmospheres between Stratospheres and Thermosphere is(CO1) 1
- (a) Stratosphere
  - (b) Thermospheres
  - (c) Mesosphere
  - (d) Troposphere
- 1-b. Wearing away of a field's topsoil by the natural physical forces of water and wind is known as \_\_\_\_\_(CO2) 1
- (a) Wind erosion
  - (b) Soil erosion
  - (c) Water erosion
  - (d) Sand erosion
- 1-c. The last community in a succession is called(CO3) 1
- (a) Ecosystem
  - (b) Climax community
  - (c) Ecotone
  - (d) Seral community
- 1-d. Increase in fauna and decrease in flora would be harmful due to increase in(CO4) 1
- (a) Diseases
  - (b) Carbon dioxide

(c) Oxygen	
(d) Radioactive pollution	
1-e. The Forest (Conservation) Act extends to the whole of India except?(CO5)	1
(a) Uttar Pradesh	
(b) Karnataka	
(c) Jammu and Kashmir	
(d) M P	
2. Attempt all parts:-	
2.a. Define the term environment?(CO1)	2
2.b. What are the main causes of water scarcity? (CO2)	2
2.c. Differentiate between species diversity and ecological diversity. (CO3)	2
2.d. What is acid rain?(CO4)	2
2.e. Discuss the schemes for women empowerment?(CO5)	2
<b>SECTION-B</b>	<b>15</b>
3. Answer any <u>three</u> of the following:-	
3-a. Define the term food web and ecological pyramid?(CO1)	5
3-b. Differentiate between conventional and non conventional energy resources?(CO2)	5
3-c. Discuss the major threats to biodiversity?(CO3)	5
3-d. Discuss the different methods of solid waste disposal? (CO4)	5
3.e. Explain the salient features of EPA? Discuss the strategy adopted by Government for the protection of environment. (CO5)	5
<b>SECTION-C</b>	<b>20</b>
4. Answer any <u>one</u> of the following:-	
4-a. Discuss the different steps of Nitrogen cycle? (CO1)	4
4-b. What are the effects of mining on the environments?(CO1)	4
5. Answer any <u>one</u> of the following:-	
5-a. Explain the advantages and limitations of solar energy?(CO2)	4
5-b. Differentiate between renewable and non renewable natural resources. (CO2)	4
6. Answer any <u>one</u> of the following:-	
6-a. What is ecological succession? Describe steps involve in ecological succession. (CO3)	4
6-b. Explain the different types of biodiversity(CO3)	4
7. Answer any <u>one</u> of the following:-	
7-a. What is Green house effect? Discuss the various impacts of greenhouse effect on environment?.(CO4)	4
7-b. Write down the control measures of air and water pollution?(CO4)	4
8. Answer any <u>one</u> of the following:-	

- 8-a. What do understand by the term environmental impact assessment? Write down the aims and methodology used in EIA?. (CO 5) 4
- 8-b. Discuss the salient features of Wild life protection act?" ?(CO 5) 4

COP . JULY 2024