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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: II - THEORY EXAMINATION (2022-2023.)

Subject: Environmental Sciences

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. A layer of ozone molecules is found in (CO1) 1
 (a) Stratospheres
 (b) Mesosphere
 (c) Thermosphere
 (d) Troposphere
- 1-b. Wearing away of a field's top soil by the natural physical forces 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) Invasion
 (b) Climax

	(c) Ecotone	
	(d) Seral	
1-d.	Air pollution from automobiles can be controlled by fitting (CO4)	1
	(a) Cyclone seperator	
	(b) Catalytic convertor	
	(c) Fabric filters	
	(d) Wet scrubber	
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) Andaman & Nicobar	

2. Attempt all parts:-

2.a.	Write down the significance of food chain? (CO1)	2
2.b.	Define electromagnetic radiation from the sun? (CO2)	2
2.c.	What is species biodiversity? (CO3)	2
2.d.	What are the control measures of noise pollution? (CO4)	2
2.e.	Write effects and control measure of flood. (CO5)	2

SECTION B

3. Answer any three of the following:-

3-a.	What are the major drawback of using pesticides in the soil? (CO1)	5
3-b.	Write down the different causes of water scarcity? (CO2)	5
3.c.	List down the reasons for man-wild life conflict. What is eco-tourism? (CO3)	5
3.d.	What is the importance of ozone shield? How CFC affect ozone shield? (CO4)	5
3.e.	What is an earthquake? Discuss the causes and consequences of an earthquake? (CO5)	5

SECTION C

4. Answer any one of the following:-

4-a.	Discuss the biotic and abiotic components of pond ecosystem? (CO1)	4
4-b.	Explain shifting cultivation. How it effects the environment? (CO1)	4

5. Answer any one of the following:-

5-a.	Discuss the limitations of solar energy and wind energy.(CO2)	4
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5-b. What is Geothermal Energy? Name the places where experimental projects for geothermal energy have been set up in India. (CO2) 4

6. Answer any one of the following:-

6-a. How can you, as an individual, prevent the loss of biodiversity? (CO3) 4

6-b. Explain the cause for the loss of biodiversity in mountains? (CO3) 4

7. Answer any one of the following:-

7-a. What is thermal pollution? Discuss the causes and effects of thermal pollution? (CO4) 4

7-b. What is photochemical smog? How does this affect the plants? (CO4) 4

8. Answer any one of the following:-

8-a. Discuss the salient features of the Environmental protection act. (CO5) 4

8-b. Name some Indian and international NGOs involved in environmental protection. (CO5) 4