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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 - (2024- 2025)**

**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 region of atmosphere which is mainly responsible for burning of meteorites in:(CO1,K1) 1
- (a) Stratosphere b) mesosphere's  
(b) Thermospheres d.Tropospheres  
(c) Mesosphere  
(d) Troposphere
- 1-b. Harnessing of nuclear energy often causes(CO2,K1) 1
- (a) Air pollution  
(b) Water pollution  
(c) Thermal pollution  
(d) Noise pollution
- 1-c. Which of the following is not a colonizer?(CO3,K1) 1
- (a) Blue-green algae  
(b) Viruses  
(c) Lichens  
(d) Mosses
- 1-d. One of the best solution to get rid of non-biodegradable wastes is (CO4,K1) 1
- (a) Burning  
(b) Dumping

- (c) Land filling
  - (d) Recycling
- 1-e. Modern concept of sustainable development focuses more on(CO5,K1) 1
- (a) Economic development
  - (b) Social development
  - (c) Environmental protection
  - (d) All of the above
2. Attempt all parts:-
- 2.a. Name the segment of atmosphere?(CO1,K1) 2
- 2.b. Write down the uses of wind energy?(CO2,K1) 2
- 2.c. What are the different approaches to biodiversity conservation in India? (CO3,K1) 2
- 2.d. What is the causes and effects of global warming?(CO4,K2) 2
- 2.e. Write down the mission of NGO?(CO5,K1) 2

### **SECTION-B**

15

3. Answer any three of the following:-

- 3-a. Define the term ecosystem?Explain the components of an ecosystem?(CO1,K1) 5
- 3-b. What are fossil fuels. Explain its advantages and limitations of fossil fuels  
?(CO2,K2) 5
- 3.c. Define the term biodiversity?Discuss the different levels of biodiversity?(CO3,K1) 5
- 3.d. Define the term solid waste?Discuss the different methods of solid waste disposa  
methods?l(CO4,k2,) 5
- 3.e. Define the term disasters?Describe the causes and effects of flood?.(CO5,K2) 5

### **SECTION-C**

20

4. Answer any one of the following:-

- 4-a. Briefly discuss the carbon cycle in nature?(CO1,K1) 4
- 4-b. Name the three types of ecological pyramid?Discuss the shapes of ecological  
pyram8id in different ecosystems?(CO1,K2) 4

5. Answer any one of the following:-

- 5-a. Discuss the causes and effects of deforestation?(CO2,K2) 4
- 5-b. Define the term natural resorces?Differentiate between re newable,non renewable  
and perpetual natural resources?(CO2,K1) 4

6. Answer any one of the following:-

- 6-a. What is ecological succession? Describe steps involve in ecological succession.  
(CO3,K1) 4
- 6-b. "Amazonian rain forest in south America has the greatest bio-diversity on earth".  
Justify the statement(CO3,K2) 4

7. Answer any one of the following:-

7-a. Define the term electronic wastes. Discuss the various sources of e-wastes and issues associated with its disposal.methods?(CO4,K1) 4

7-b. Discuss the causes and effects of acid rain?(CO4,K2) 4

8. Answer any one of the following:-

8-a. What are the key features of the Air (Prevention and Control of Pollution) Act, 1981?(CO5,K1) 4

8-b. Discuss the salient features of Water (Prevention and Control of Pollution) Act of 1974?(CO5,K1) 4

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