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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 (2024- 2025)

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 food web consists of (CO 1,K1)

1

- (a) portion of food chain
- (b) producers, consumers
- (c) . Interlocking food chain
- (d) A set of similar conditions

1-b. Solar cells are(CO 2,K1)

1

- (a) CDs(n-type)
- (b) p-type
- (c) Irridium phosphate
- (d) AB

1-c. Biodiversity” means “the variety of life on (CO3 K1)

1

- (a) Earth
- (b) Atmosphere
- (c) Water bodies
- (d) Biosphere

1-d. The primary air pollutant responsible for acid rains is(CO 4,K1)

1

- (a) Carbon di oxide
- (b) CO
- (c) Sulfur di oxide

(d) Ozone

- 1-e. The Environmental Protection Act was enacted in the year (CO 5,K1)) 1
- (a) 1986
- (b) 1987
- (c) 1989
- (d) 1990

2. Attempt all parts:-

- 2.a. Define the term habitat and environment?(CO 1,K1) 2
- 2.b. Define the term non renewable energy resources?Give two examples of non renewable energy resources?(CO 2,K1) 2
- 2.c. Define the term ecosystem biodiversity and species biodiversity?(CO 3,K1) 2
- 2.d. Define the term pollution and pollutants?(CO 4,K1) 2
- 2.e. Define the term and objective of 'Sustainable Development'?(CO 5,K1) 2

SECTION-B

15

3. Answer any three of the following:-

- 3-a. Define the term ecosystem?Discuss the components of ecosystems?(CO1,K1) 5
- 3-b. Write down the advantages and limitations of solar energy and wind energy?(CO2,K1) 5
- 3-c. Define the term ecological succession?Name the steps involved in ecological succession?(CO3,K1) 5
- 3-d. Define water pollution. ? What are the sources, effects and control measures of marine pollution?(CO 4,K1) 5
- 3.e. Briefly discuss the salient features of water(Pollution and control of pollution)Act,1974 ?(CO 5,K2) 5

SECTION-C

20

4. Answer any one of the following:-

- 4-a. Define the term food chain and food web?Name the different types of food chain?(CO 1,K1) 4
- 4-b. Define the term ecological pyramid?Discuss the different types of ecological pyramid?(CO1,K1) 4

5. Answer any one of the following:-

- 5-a. Define the term deforestation?Name 3 causes of deforestation?(CO 2,K1) 4
- 5-b. Define the term minerals?Name 3 examples of renewable and non renewable energy resources?(CO2,K1) 4

6. Answer any one of the following:-

- 6-a. Define the term hot spots with reference to biodiversity?Name 3 hot spots present in India?(CO 3,K1) 4
- 6-b. Write down the benefits of biodiversity?Write down the 4 causes to the loss of 4

biodiversity?(CO 3,K1)

7. Answer any one of the following:-

7-a. Write down the causes, effects and control measures of acid rain?(CO4,K2) 4

7-b. .Discuss the sources, effects and control measure of solid waste?(CO 4,K2) 4

8. Answer any one of the following:-

8-a. Discuss the salient features of the Environmental protection act?(CO 5,K2) 4

8-b. . Expand the term EIA?Name the different steps/methodology of EIA?(CO 5,K1) 4

REG:JAN_JUN-2025