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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: III - 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-b. Which is the renewable exhaustible natural energy resource?(CO 2,K1) 1
- (a) Coal
- (b) Petroleum
- (c) Kerosene
- (d) Biomass
- 1-a. The natural place of an organism or community is known as (CO1, K1) 1
- (a) Niche
- (b) Biome
- (c) Habitat
- (d) Habit
- 1-c. Soil erosion can be prevented by(CO3,K2) 1
- (a) Deforestation
- (b) Overgrazing
- (c) Afforestation
- (d) Removal of vegetation
- 1-d. Chlorofluorocarbons (CFCs) are primarily responsible for which environmental issue?(CO4,K1) 1
- (a) Global warming
- (b) Acid rain

- (c) Ozone layer depletion
- (d) Eutrophication
- 1-e. In which year was the Water (Prevention and control of pollution) act act enacted (CO5,K2) 1
- (a) 1974
- (b) 1980
- (c) 2000
- (d) 1947
2. Attempt all parts:-
- 2.a. Name the 4 segments of environment? (CO1, K1) 2
- 2.b. Define the term natural recourses? Name 2 example of natural resources (CO2, K1) 2
- 2.c. Define the term biodiversity? Name any 2 typers of biodiversity? (CO3, K1) 2
- 2.d. Define the term pollution and pollutants? (CO4, K1) 2
- 2.e. Define the term disasters? Name any two natural disasters? (CO5, K2) 2

SECTION-B 15

3. Answer any three of the following:-

- 3-a. Define the term ecological pyramid? Why is the pyramid of energy always upright? (CO1, K1) 5
- 3.c. Expand the term EPA? Discuss the salient features of EPA? (CO5, K5) 5
- 3-b. Define the term fossil fuels? Discuss different types of fossil fuel and their impacts on environment? (CO2, K1) 5
- 3.d. Define the term genetic biodiversity, species biodiversity and ecology biodiversity? Write down the value of biodiversity? (CO3, K2) 5
- 3.e. Define the term air pollution? Discuss the causes and effects of air pollution? (CO4, K2) 5

SECTION-C 20

4. Answer any one of the following:-

- 4-a. Define the term ecosystem? Explain the structure and functions of ecosystem? (CO1, K1) 4
- 4-b. Define the term food chain?? Explain the different type4s of food chain? (CO1, K1) 4

5. Answer any one of the following:-

- 5-a. Define the term deforestation? Discuss the causes of deforestation? (CO2,K2) 4
- 5-b. Define the term renewable energy resourses?Discuss the two advantages and one limitation of solar energy? (CO2K1) 4

6. Answer any one of the following:-

- 6-a. Define the term hot spots? Name 4 hotspots present in India? (CO3, K2) 4
- 6-b. Discuss the importance and causes to the loss of biodiversity? (CO3, K2) 4
7. Answer any one of the following:-
- 7-a. . What are the causes of noise pollution? Define the term Eutrophication and "Bio magnification"? (CO4, K2) 4
- 7-b. Define the term soil pollution? Discuss the effects of soil pollutants on humans and other components of environment? (CO4, K2) 4
8. Answer any one of the following:-
- 8-a. Define the term bioindicators? Name the different types of bioindicators? What is the role of bioindicators in nature? (CO5, K2) 4
- 8-b. Discuss the steps and objectives of EIA? (CO5, K2) 4

REG: JULY_DEC-2024