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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-a. Ammonification is the formation of: (CO1, K1)

1

- (a) Ammonia from nitrates by decomposers
- (b) Ammonia from nitrogen
- (c) Ammonia from amino acids
- (d) Ammonia from nitrates by nitrogen fixers

1-b. How much percentage (%) of the Earth's Surface is covered with water? (CO2, K2)

1

- (a) About 70%
- (b) About 90%
- (c) About 60%
- (d) None of these

1-c. Lichens are good bioindicators for: (CO3, K1)

1

- (a) Air and water pollution
- (b) Soil pollution
- (c) Noise pollution
- (d) Environmental radiation

1-d. Industrial waste may contain toxic: (CO4, K1)

1

- (a) Chemicals
- (b) Phenols

- (c) Acids
- (d) All of the above
- 1-e. What is the full form of NGOs? (CO5, K1) 1
 - (a) Non-Governmental Organizations
 - (b) Non Governance Organizations
 - (c) No Governance Organizations
 - (d) Null Governmental Organizations

2. Attempt all parts:-

- 2.a. Define Biosphere. (CO1, K1) 2
- 2.b. Name any two fossil fuels. (CO2, K1) 2
- 2.c. What do you mean by Endangered species? (CO3, K1) 2
- 2.d. Differentiate between composting and incineration? (CO4, K2) 2
- 2.e. Define sustainable development? (CO5, K1) 2

SECTION-B

15

3. Answer any three of the following:-

- 3-a. Discuss the role of producers, consumers and decomposers in an ecosystem? (CO1, K2) 5
- 3-b. What are renewable energy resources and why are they considered a sustainable energy solution? (CO2, K2) 5
- 3-c. What do you understand by biodiversity conservation or management and what are the methods of biodiversity conservation? (CO3, K2) 5
- 3-d. Discuss the causes, effects and control measure of acid rain? (CO4, K3) 5
- 3-e. What is disaster? How may disaster be classified? What is disaster preparedness? (CO5, K3) 5

SECTION-C

20

4. Answer any one of the following:-

- 4-a. Discuss the preventive measures of the conservation of forest? (CO1, K3) 4
- 4-b. Discuss the components of atmosphere? (CO1, K2) 4

5. Answer any one of the following:-

- 5-a. Differentiate between renewable and non renewable natural resources. (CO2, K3) 4
- 5-b. Discuss the importance of soil as a natural resource in agriculture and ecosystem health. (CO2, K3) 4

6. Answer any one of the following:-

- 6-a. Differentiate between In situ and ex situ conservation method of biodiversity? (CO3, K3) 4
- 6-b. Why is there a need to conserve biodiversity? (CO3, K2) 4

7. Answer any one of the following:-

- 7-a. What is Green house effect? Discuss the various impacts of greenhouse effect on 4

environment? (CO4, K2)

7-b. Discuss the control measures used for controlling water pollution and noise ? (CO4, K3) 4

8. Answer any one of the following:-

8-a. Discuss the objectives of Environmental protection act? (CO5, K2) 4

8-b. Discuss the different steps of environmental impact assessment? (CO5, K2) 4

COP:JULY_DEC-2024