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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 (2025- 2026)

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:-

(1.1) The term ecology was first coined by: (CO1, K1)

1

- (a) Charles Darwin
- (b) Ernst Haeckel
- (c) Aristotle
- (d) Alfred Wallace

(1.2) Which of the following is not a fossil fuel? (CO2, K1)

1

- (a) Coal
- (b) Petroleum
- (c) Natural Gas
- (d) Biomass

(1.3) The major cause of global warming is:(CO3, K2)

1

- (a) Mining
- (b) Nuclear plants
- (c) Greenhouse gases
- (d) Noise pollution

(1.4) Flood management is a part of :(CO4 K2)

1

- (a) Disaster prevention
- (b) Disaster management
- (c) Climate change mitigation
- (d) Wildlife protection

(1.5) Key goal of EIA is to: (CO4 K2)

1

- (a) Assess social and environmental impact
- (b) Promote industrialization
- (c) Reduce taxes
- (d) Build infrastructure

2. Attempt all parts:-

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|-------|--|---|
| (2.1) | Differentiate between food chain and food web. (CO1, K2) | 2 |
| (2.2) | State two major environmental effects of deforestation (CO2, K2) | 2 |
| (2.3) | What is water pollution? Name two water pollutants? (CO3, K1) | 2 |
| (2.4) | What is climate change? Name two causes and effects of climate change (CO3, K1) | 2 |
| (2.5) | Define women education.? Write down the importance of women education? (CO4, K1) | 2 |

SECTION-B

15

3. Answer any three of the following:-

- | | | |
|-------|---|---|
| (3.1) | Define ecosystem and ecology? Explain its basic components and functions? (CO1, K1) | 5 |
| (3.2) | Define the term natural resources? Define renewable and non-renewable natural resource? (CO2, K2) | 5 |
| (3.3) | Describe the major benefits and risks associated with wind and solar energy? CO2, K2) | 5 |
| (3.4) | Explain the causes and effects of acid rain and air pollution? (CO3, K2) | 5 |
| (3.5) | Describe the steps and objectives of environmental impact assessment (EIA). (CO4, K2) | 5 |

SECTION-C

20

4. Answer any five of the following:-

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|-------|---|---|
| (4.1) | Describe nitrogen cycle and carbon cycle? (CO1, K1) | 4 |
| (4.2) | Describe the different types of ecological pyramids with suitable examples. (CO1, K2) | 4 |
| (4.3) | Define the term environment? Explain the different components of environment? (CO1, K2) | 4 |
| (4.4) | Define the term deforestation? Explain the functions of forest? Discuss the causes and consequences of deforestation? (CO2, K2) | 4 |
| (4.5) | Explain the values of biodiversity? Name the different types of biodiversity? (CO1, K2) | 4 |
| (4.6) | Explain the causes and effects of noise pollution and soil pollution? (CO 3, K2) | 4 |
| (4.7) | Define the term bioindicators? Name any four bio indicators and discuss their role? (CO4, K2) | 4 |
| (4.8) | Explain the salient features of AIR (PREVENTION AND CONTROL OF POLLUTION) ACT, 1981? CO4, K2) | 4 |