

Department of Applied Sciences, Institute of Engineering & Technology, Lucknow
IAS-204 [Environment and Ecology], 1st Class Test [March, 2025]

Time: 1 Hr

Max Marks: 20

Note: Attempt all Questions. All questions carry equal marks.

1. What are the different segments of atmosphere? Discuss the temperature variations and the main activities in each of them.

OR

Explain the different types of water borne and water induced disease?

2. Explain the term Ecosystem? Discuss in detail the role of producer, consumer and decomposers in forest ecosystem.

3. What is material cycle? Describe the Sulphur cycle with help of neat diagram?

OR

Write a note on renewable and non-renewable energy resources with examples?

Q.4. What is deforestation? Discuss the various causes, effects and remedies of deforestation?

Q.5. Discuss the impact of transportation activity on environment. Suggest remedial measures.

OR

Explain Environmental Impact Assessment (EIA). Enumerate and describe the various steps involved in the EIA process.

Department of Applied Sciences, Institute of Engineering & Technology, Lucknow
IAS-104 [Environment and Ecology], IInd Class Test [December, 2024]

Time: 1Hr

Max Marks: 20

Note: Attempt all Questions. All questions carry equal marks.

Q.1. What do you understand by the term EIA? With the help of flow chart, describe the EIA process.

Q.2. What is solid waste? Name and briefly discuss three basic functional elements of solid waste management.

OR

What are the sources of air pollutants? What are its effects on human health? Discuss the various approaches to control air pollution.

Q.3. What are "Greenhouse Gases"? Name and discuss their contributions to global warming. What can be the effects of global warming? What are remedial measures?

Q.4. Differentiate between clean rain and acid rain. Name the principle species of acid rain. How they are formed and what are their effects? State and discuss the various approaches to control acid rain.

OR

What is Ozone Hole? How it is formed? What are the cause of ozone hole formation? What remedial measures do you suggest?

Q5. Define the term NGO? Giving suitable examples discuss the role of NGOs in environmental protection.

OR

Briefly discuss the salient features of the environment (Protection) Act, 1986.

Department of Applied Sciences, Institute of Engineering & Technology, Lucknow
IAS-204 [Environment and Ecology], IInd Class Test [April, 2025]

Max Marks: 20

Time: 1Hr

Note: Attempt all Questions. All questions carry equal marks.

- Q.1. What are the primary causes of global warming, and what are the main sectors contributing to green house emissions?
Q.2. Discuss the major sources of solid waste. Describe any two effective methods for solid waste management.
Q.3. What are primary and secondary air pollutants? How air pollution is adversely affecting animals and plants? Describe any two methods for controlling air pollution.

OR

Discuss the causes and consequences of (i) Bhopal Gas tragedy (ii) Eutrophication

- Q.4. What is acid rain, and how is it formed? What are the primary pollutants involved? Discuss the consequences of acid rain.

OR

Discuss the salient features of Environmental Protection Act 1986?

- Q.5. Discuss the role of NGOs in environmental protection?

OR

What are the major sources of noise pollution? Discuss strategies to reduce noise pollution in urban areas?

ENVIRONMENT AND ECOLOGY

[Max. Marks: 70]

[TIME: 3 hrs.]

Note: Attempt All Questions. All Question carry equal marks.

Q1. Answer ALL parts. Marks
(a) Classify the atmosphere on the basis of temperature variations. State the main activities taking place in each of them. 3.5

OR

Unawareness or ignorance about protection of environment will lead to detrimental consequences. Explain with examples.

(b) Discuss the impact of human activities mining and power generation on environment. Suggest remedial measures. 3.5

OR

What is Sustainable Development? Discuss in detail in Indian perspective.

(c) Explain the term Ecosystem? Discuss in detail the role of producer, consumer and decomposers in lake ecosystem. 3.5

(d) Explain Environmental Impact Assessment (EIA). Enumerate and describe the various steps involved in the EIA process. 3.5

Q2. Answer ALL parts.

(a) Explain the causes, effects and remedies of water borne and water induced diseases? Discuss the problem of presence of arsenic in drinking water in India. 7

OR

What are renewable and non renewable energy sources? Discuss the scope of solar power generation in Indian context.

(b) Discuss the consequences of depletion of Forests on the environment and society. Suggest measures to increase the forest cover. 7

OR

What is material cycle? With the help of neat diagram, describe the Nitrogen cycle.

Q3. Answer ALL parts. 7

(a) Write brief notes on:

(i) Noise Pollution

(ii) Smog Formation

OR

What are the main sources of Solid Waste? Discuss the different methods of Solid Waste Management.

(b) What is water pollution? Discuss the sources of water pollution. How are polluted and neglected rivers adding to the drinking water scarcity in several cities? 7

Q4. Answer ALL parts.

(a) What is Global warming? Discuss the causes, consequences and control of Global Warming. Suggest strategies to reach net zero carbon levels. 7

(b) What is Acid Rain? Name the gases responsible for acid rain. Discuss the effects of acid rain on environment and suggest remedies. 7

OR

What is Ozone Hole? Discuss the reactions involved in the formation and depletion of ozone layer. Explain the causes, effects and remedies for ozone layer depletion.

Q5. Answer ALL parts.

(a) Briefly discuss the salient features of Environmental Protection Act 1986. 7

OR

Discuss the initiatives taken by the government for women education in India. Briefly describe the various schemes launched for women education.

(b) Discuss the role of the government and legal aspects in protection of the environment. 7

OR

Discuss the role and initiatives of NGOs in environment protection.

B. Tech.

(SEM I) ODD SEMESTER EXAMINATION 2022-23

ENVIRONMENT AND ECOLOGY

[TIME: 3 hrs.]

[Max. Marks: 70]

Note: Attempt All Questions. All Question carry equal marks.

- Q1. Answer ALL parts. Marks
- (a) ✓ Name and describe the segments of Atmosphere. 3.5
- (b) ✓ What impact does Power Generation activity have on environment? Suggest remedial measures. 3.5
- (c) How can an individual control environmental pollution? 3.5

OR

- ✓ What is a balanced ecosystem? Describe Food Chain and Food Web.
- (d) Describe the structure, salient features and functions of a Lake ecosystem. 3.5

OR

- ✓ What are Ecological pyramids? Explain why some of these pyramids are upright while others are inverted.

Q2. Answer ALL parts.

- (a) ✓ Write a note on renewable and non-renewable energy resources with examples. 7
- (b) Explain the different types of Water Borne and Water Induced disease. 7

OR

- ✓ Give a neat sketch and explain the different stages in Nitrogen Cycle.

Q3. Answer ALL parts.

- (a) ✓ What is water pollution? Explain its effects on human health. How can water pollution be minimized? 7
- (b) Describe different methods of solid waste disposal. How can the generation of E- waste be minimized? 7

OR

- ✓ Describe the impact of transportation activity in air pollution. Suggest means to minimize air pollution.

Q4. Answer ALL parts.

- (a) Write a note on any two of the following: 7
- (i) Ozone layer formation and depletion
 - (ii) Green hydrogen as fuel
 - (iii) Global warming
 - (iv) Climate change
- (b) Discuss the recent earth subsidence encountered in Uttarakhand. 7
Discuss its causes and suggest remedial measures.

OR

- How is population growth leading to degradation of environment?
Discuss the issue of paddy burning leading to impact on AQI.

Q5. Answer ALL parts.

- (a) Discuss the role of NGOs in Environmental Protection. 7

OR

- What is meant by Sustainable development? Discuss the salient features of Environment Protection Act 1986.
- (b) Discuss the role of Government and legal aspect involved in Environmental Protection. 7

OR

- Discuss the different stages involved in Environment Impact Assessment. Explain the significance of EIA.