Hajee Mohammad Danesh Science and Technology University, Dinajpur

B.Sc. Ag. (Hon's); Level 1 Semester 1; Final Examination-2025

Course title: Fundamentals of Environmental Sciences Theoretical

Course code: AGF 101 | Full Marks: 30 | Time: 2 hours

There are seven questions in each section. Answer any 5 (Five) of them. The numbers in the right margin indicate marks of respective questions.

Section-A

1. What is meant by 'Environment'? Illustrate the environmental edaphic and biotic factors. 3.0

2. "Climatic factors greatly influence the survival, distribution, and behavior of living organisms" - Explain. 3.0

3. Briefly describe the major environmental issues of Bangladesh. 3.0

4. What is meant by fossil fuel? Analyze the comparative environmental effects of different fossil fuels. 3.0

5. Enumerate the reasons of global warming. Discuss the impact of global warming on Bangladesh. 3.0

6. Illustrate how global warming occurs due to the greenhouse effect with a sketch. 3.0

7. Give an outline of the ozone hole. Write the consequences of ozone layer depletion. 3.0

Section-B

1. Illustrate the following terms: Pollution, Pollutant, Environmental pollution. 3.0

2. "Oxides of carbon and nitrogen are the major air pollutants" - Justify. 3.0

3. Discuss the major pollutant causing water pollution. 3.0

4. What are the forms of acid deposition? Summarize the effect of acid rain on ecosystems. 3.0

5. What is "Atmosphere"? Briefly discuss the major layers of the atmosphere. 3.0

6. Define climate and clearly distinguish it from weather with suitable examples. 3.0

7. How does climate change influence Bangladesh, particularly in relation to floods, droughts, storms, and water resources? 3.0

Hajee Mohammad Danesh Science and Technology University

B.Sc.Ag. (Hon's), Level-1, Semester-I, Final Examination-2024 (January-June)

Course Title: Fundamentals of Environmental Science (Theoretical)

Course Code: AGF 101 | Full marks: 30 | Time: 2 hours

Answer any 5 (Five) from each section. Split answering of a question is not acceptable.

Section-A

1. Differentiate clearly between "environment," "environmental science," "environmental management," "ecosystem," and "ecology." Provide a specific example for each term to illustrate its meaning. 3.0

2. Explain the fundamental reasons why environmental science is a crucial field of study for undergraduate students in agricultural disciplines. 3.0

3. Briefly analyze the primary human actions and activities contributing to Bangladesh's environmental degradation. 3.0

4. Define the following terms: climate, climate change, resilience, adaptation, and mitigation. 3.0

5. Briefly describe the climate profile of Bangladesh. 3.0

6. What is Climate-smart agriculture (CSA)? Mention the key principle of CSA. 3.0

7. Briefly describe two CSA technologies for climate change adaptation. 3.0

Section-B

1. Write about how energy use pollutes our environment, focusing on burning fossil fuels. 3.0

2. Graphically show the top five countries contributing to global CO2 emissions. Discuss the consequences of the greenhouse effect. 3.0

3. What are the drivers of global warming? Write about the pessimistic impacts of global warming on Bangladesh. 3.0

4. What is meant by "Ozone, Ozone layer, and Ozone hole"? Why is the ozone hole prominent over the Antarctic region? 3.0

5. What is meant by pollutant and pollution? Briefly discuss the different types of pollutants. 3.0

6. Write the reasons and remedies for water pollution. 3.0

7. What is the role of biodiversity in agroforestry systems, and how does it impact the environment? 3.0

Hajee Mohammad Danesh Science and Technology University, Dinajpur

B.Sc. Ag. (Hon's); Level 1 Semester 1; Final Examination-2023

Course title: Fundamentals of Environmental Science (Theoretical)

Course code: AGF 101 | Full Marks: 30 | Time: 2 hours

There are seven questions in each section. Answer any 5 (Five) of them. The numbers in the right margin indicate marks of respective questions. Split answer of a question is not acceptable.

Section-A

1. Enumerate and briefly discuss the major environmental issues faced by Bangladesh. 3.0

2. Analyze the environmental degradation resulting from human activities. 3.0

3. Explain how agroforestry contributes to biodiversity conservation and soil protection. 3.0

4. Classify atmospheric layers and delineate their respective altitudes. 3.0

5. Interpret the statement "Burning of fossil fuel degrades our environment". 3.0

6. What is meant by greenhouse effect? Illustrate how global warming takes place due to greenhouse effect. 3.0

7. Give an outline on ozone hole. Write the consequences of ozone layer depletion. 3.0

Section-B

1. Define environmental pollution. Discuss different types of environmental pollutants with examples. 3.0

2. Discuss the sources and effects of carbon dioxide and carbon monoxide with examples. 3.0

3. "Agroforestry practices improve water quality and mitigate climate change impacts" - Explain. 3.0

4. What are the forms of acid deposition? Summarize the effect of acid rain on ecosystems. 3.0

5. Briefly discuss the sources of water pollution. 3.0

6. Briefly enumerate the reasons of climate change. 3.0

7. What is meant by climate smart agriculture (CSA)? Enlist the CSA practices. 3.0

Hajee Mohammad Danesh Science & Technology University, Dinajpur

B.Sc. Ag. (Hons) L1S1, Final Examination-2022

Course Title: Fundamentals of Environmental Science

Course Code: AGF 101 | Full marks: 30 | Time: 2 hours

There are seven questions in each section. Answer any 5 (Five) of them. The numbers in the right margin indicate marks of respective question. Split answer is strictly prohibited.

Section-A

1. Define the Environment. List down the components of environment with examples. 3.0

2. What is atmosphere? Mention the composition of atmospheric gases. 3.0

3. Discuss the atmospheric layers with their altitudes. 3.0

4. What do you mean by climate? Briefly describe the climate profile of Bangladesh. 3.0

5. What is greenhouse effect? Write the reasons for the greenhouse effect. 3.0

6. What is fossil fuel? "Burning of fossil fuel for energy consumption is one of the main reasons for environmental degradation" - Explain. 3.0

7. Discuss the different types of pollutants with example. 3.0

Section-B

1. What are the major environmental issues currently affecting the world and specific to Bangladesh? Briefly explain any one important issue. 3.0

2. How does climate change affect our daily life? Explain with example. 3.0

3. "Noise pollution can be minimized through forestation program" - Discuss. 3.0

4. Mention the sources of water pollution with examples. Explain, in simple terms, how one can determine whether a water sample is of good or poor quality? 3.0

5. Write the causes and effect of sulfur compounds on environment. 3.0

6. How does global warming affect Bangladesh and what are the significant impacts it has on the country? 3.0

7. What is meant by ozone layer depletion? Explain the causes of ozone layer depletion. 3.0