

Greenlawns High School
Terminal Examination 2025
Subject: Environmental Science

Std: IX

Date: 06/10/2025

Time: 2 Hours

Marks: 80

- Answers to this Paper must be written on the paper provided separately.
- You will not be allowed to write during first 15 minutes.
- This time is to be spent in reading the question paper.
- The time given at the head of this Paper is the time allowed for writing the answers.
- Section A is compulsory. Attempt any four questions from Section B.

SECTION A

(Attempt all questions from this Section.)

Q.1 Choose the correct answers to the questions from the given options:(16)
(Write the correct option and the corresponding answer)

i. The community in fresh water is termed as _____.

- a) Halosere b) Psammosere c) Hydrosere d) Xerosere

ii. Choose the correct order of rain water harvesting structures

- a) Catchment, Conduits, Storage container, Recharging structure.
b) Conduits, Catchment, Storage container, Recharging structure.
c) Conduits, Catchment, Recharging structure, Storage Container.
d) Catchment, Conduits, Recharging structure, Storage Containers.

iii. _____ bacteria convert nitrate ions of the soil into gaseous nitrogen.

- a) *Nitrobacter* b) *Rhizobium* c) *Nitrosomonas* d) *Pseudomonas*

iv. Which of the following chemical was responsible for Bhopal Gas Tragedy?

- a) Chlorofluorocarbon b) Ozone c) Methyl Isocyanate d) Lead

v. Endangered species like Hangul and Musk deer are found in which of the following zones?

- a) Trans- Himalayan zone. b) Himalayan zone.
c) Semi Arid zone. d) Coastal zone.

vi. Which of the following options is correct for Waste water treatment?

a) Primary treatment- Removal of harmful chemicals.

Secondary treatment- Removal of biological matter.

Tertiary treatment- Removal of suspended and particulate matter.

b) Primary treatment- Removal of biological matter.

Secondary treatment- Removal of suspended and particulate matter.

Tertiary treatment- Removal of harmful chemicals.

c) Primary treatment- Removal of suspended and particulate matter.

Secondary treatment- Removal of harmful chemicals.

Tertiary treatment- Removal of biological matter.

d) Primary treatment- Removal of suspended and particulate matter.

Secondary treatment- Removal of biological matter.

Tertiary treatment- Removal of harmful chemicals.

vii. Which of the following zones is known as 'gateway' for India's flora and fauna?

a) Western Ghats

b) Gangetic Plains

c) North East India

d) North Western Regions.

viii. What is the primary effect of thermal inversion on air pollutants?

a) They are dispersed quickly

b) They are trapped closer to the earth

c) They have no impact on air quality

d) They are removed from the atmosphere

ix. What does make a coral reef?

a) Polyps of sea anemones

b) Fish skeletons

c) Shell fragments

d) Algae colonies

x. What happens to biomass as you move up the trophic levels in an upright pyramid of biomass?

a) It increases

b) It decreases

c) It remains the same

d) It fluctuates

xi. What is an ecological niche?

a) The physical environment where an organism lives

b) The role and position of an organism in its environment

c) The diet and feeding habits of an organism

d) The population size of an organism

- xii. Acacia and Baobab trees are mainly found in which regions?
- Tropical rainforest
 - Temperate forest
 - Tropical Grassland
 - Temperate Grassland
- xiii. In a food chain, what is the role of a decomposer?
- To produce energy
 - To consume primary producers
 - To break down dead organisms
 - To regulate population sizes
- xiv. What is the implication of Liebig's Law for agricultural practices?
- Applying excess nutrients guarantees maximum growth
 - Only one nutrient is essential for plant growth
 - Nutrient availability has no impact on plant growth
 - Identifying and addressing the limiting nutrient can optimize growth
- xv. Why does eutrophication lead to decreased oxygen levels in water bodies?
- Because of increased photosynthesis
 - Because of increased respiration by algae
 - Because of decreased water temperature
 - Because of increased water circulation
- xvi. What does extinction mean?
- The permanent disappearance of a species
 - The process of species migration
 - The process of species adaptation
 - The evolution of a new species

Question 2 (8)

- Define: Mutualism. Write one example of mutualism. (2)
- The Biogeochemical cycles depend on each other and co-evolved with specific metabolic pathways. Explain the statement with an example. (2)
- Why are wetlands ecologically important? Write any four reasons. (2)
- Write any four effects of Ocean pollution. (2)

Question 3 (8)

- Differentiate between Primary and Secondary Succession. (Two points – Initiation and Soil, Write in a tabular form) (2)
- Write any four threats to Polar ecosystem. (2)
- Write any two characteristic features of Coastal region. (2)
- Write any two sources of Carbon monoxide. What is Carbon monoxide poisoning? (2)

Question 4 (8)

- i. Differentiate between Intraspecific and Interspecific Competition. (Two points- Meaning and example, Write in a tabular form) (2)
- ii. Describe flora and fauna of semi-arid zone. (2)
- iii. Write any four steps which you can take at personal level to conserve water. (2)
- iv. What is photochemical smog? Name the device used in automobiles to reduce the smog. (2)

SECTION B

(Attempt any 4 questions from this Section.)

Question 5 (10)

- i. Write the short note on Deccan Plateau based on following points. (5)
 - a) Location
 - b) Climate
 - c) Common features of the landscape.
 - d) Animals
 - e) Deccan Trap
- ii. Explain the two types fresh water ecosystem. What are the three zones of pond ecosystem? (5)

Question 6 (10)

- i. What is carbon cycle? Draw a neat labelled diagram of carbon cycle. Write two effects of human activities on carbon cycle. (5)
- ii. Define: Sustainable development. Write the probable strategies for sustainable development. (5)

Question 7 (10)

- i. Explain: What are the threats to ground water? (5)
- ii. What is Parasitism? Explain the two types Parasitism with examples. (5)

Question 8 (10)

- i. What is acid rain? Explain any 4 effects of acid rain. (5)
- ii. Explain any five effects of water pollution on ecosystem. (5)

Question 9 (10)

- i. Define: Food Web. Explain two categories of food web with one example of each. (5)
- ii. Explain the two types of air pollutants according to their origin. Write any two sources and three effects of Lead as an air pollutant. (5)