

GREENLAWNS SCHOOL, WORLI

TERMINAL EXAMINATION: 2024-25

ENVIRONMENTAL SCIENCE

Std: IX

Marks: 80

Date: 30/09/2024

Time: 2 hrs

Answers to this paper must be written on the paper provided separately. You will **not** be allowed to write during the first **10** minutes. This time is to be spent in reading the Question paper.

Section A is compulsory. Attempt **any four** questions from **Section B**.

SECTION A

*(Attempt **all** questions from this Section)*

Question 1

Choose the correct answers to the questions from the given options.

[16]

(Do not copy the question, write the correct answers only.)

- (i) The uppermost zone of the shallow water where phytoplanktons are present is known as _____ zone:
a. Profundal b. Limnetic c. Littoral d. Abiotic
- (ii) Snow leopard and migratory black-necked crane belong to the zone of:
a. Trans- Himalayan b. Himalayan
c. Gangetic d. Deccan Plateau
- (iii) Carrying water to a water deficient area using 'medusa bags' is called:
a. Desalination b. Drip irrigation c. Water harvesting d. Towing
- (iv) Permafrost is quite common in the climate of:
a. Taiga b. Arctic Tundra c. Wetlands d. Estuaries
- (v) Which of the following gas is released as a result of burning of fossil fuels?
a. Oxygen b. Nitrogen c. Water vapour d. Carbon-dioxide
- (vi) The tropical grasslands receiving a heavy rainfall of 100 to 150 cms followed by a long dry season is often termed as:
a. Pampas b. Prairies c. Savannas d. Steppes
- (vii) The community based around detritus or the remnants of dead organisms belong to:
a. Grazing web b. Detrital web c. Food web d. None
- (viii) Secondary treatment of water involves the removal of biological matter by:
a. Sedimentation b. Precipitation
c. Chemical treatment d. Adding micro organisms

- (ix) The island forests of Lakshadweep in the Arabian Sea stretch to a maximum width of:
 a. 58 km b. 68 km c. 75 km d. 110 km
- (x) The waters of the River Brahmaputra are shared by:
 a. China b. India c. Bangladesh d. All
- (xi) The Semi Arid zone of India is inhabited by:
 a. One-horned rhinoceros c. Royal Bengal Tiger
 b. Asiatic Lions d. Great Indian hornbill
- (xii) Which of these are known as ‘the rainforest of the sea’?
 a. Fishes b. Corals c. Migratory birds d. Aquatic plants
- (xiii) Tropical rain forests contain a small number of very large trees known as:
 a. Succulents b. Cactus c. Emergents d. Grasslands
- (xiv) Boreal forest or Snow forest belong to this region:
 a. Taiga b. Temperate forests c. Rainforests d. Deserts
- (xv) The energy flow in an ecosystem is always:
 a. Unidirectional b. Bidirectional c. In all directions d. Not defined
- (xvi) The type of community found on sand is called:
 a. Xerosere b. Psammosere c. Lithosere d. Halosere

Question 2

- (i) What is a food pyramid? [2]
- (ii) Mention effects of any two human activities on Carbon cycle. [2]
- (iii) Why are corals important for the marine life? [2]
- (iv) Give two examples of the flora of Himalayan zone. [2]

Question 3

- (i) How can one prevent ocean pollution? [2]
- (ii) Define – Smog. How is it caused? [2]
- (iii) Name two traditional water harvesting systems of Rajasthan. [2]
- (iv) What are the features of Grassland Ecosystem? [2]

Question 4

- (i) Give two points of difference between – Primary and Secondary succession. [2]
- (ii) Name any two fauna of the Desert Ecosystem. [2]

- (iii) What are the two modern methods of Rainwater harvesting. [2]
(iv) Give the meaning of the words – Halosere and Lithosere. [2]

SECTION B

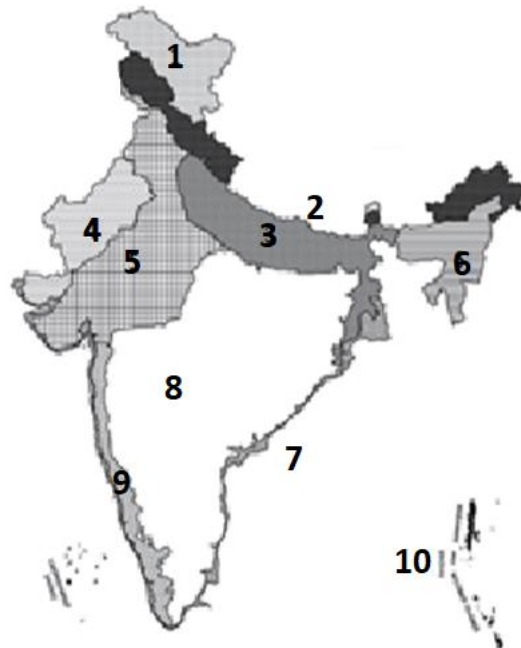
(Attempt **any four** questions from this section)

Question 5

- (i) Explain Nitrogen cycle. [5]
(ii) Write a note on Bhopal Gas Tragedy. [5]

Question 6

- (i) Name the marked biogeographic zones from 1-10 in India in the map provided. [5]

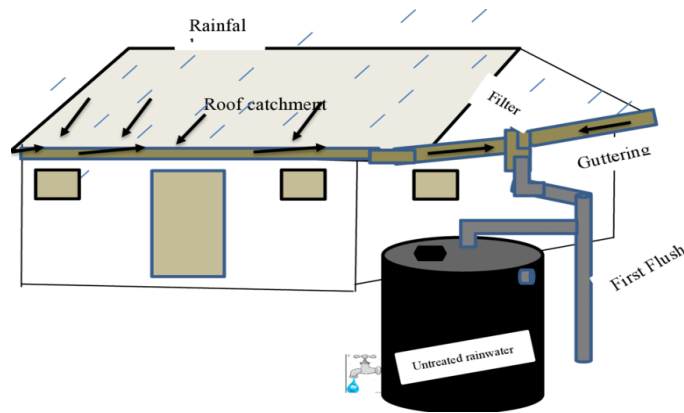


- (ii) List the sources of the following major air pollutants: [5]
- (a) Sulphur oxides
 - (b) Hydrocarbons
 - (c) Carbon monoxide
 - (d) Ozone
 - (e) Lead

Question 7

(i) Identify the figure below and explain the process.

[5]



(ii) What are the threats to Temperate Grassland?

[5]

Question 8

(i) What would be your personal goals to conserve water at home?

[5]

(ii) Write a note on the location and biodiversity of the Deccan plateau.

[5]

Question 9

(i) Explain 'Ecological succession.' Mention the factors that influence succession.

[5]

(ii) With regards to the term 'Ecosystem', explain the terms:

[5]

- (a) Producers
- (b) Primary consumers
- (c) Secondary consumers
- (d) Tertiary consumers
- (e) Decomposers
