

GREENLAWNS SCHOOL, WORLI
PRELIMINARY EXAMINATION – 2026
ENVIRONMENTAL SCIENCE

Std: X

Date: 09/01/2026

Marks: 80

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 15** 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.)

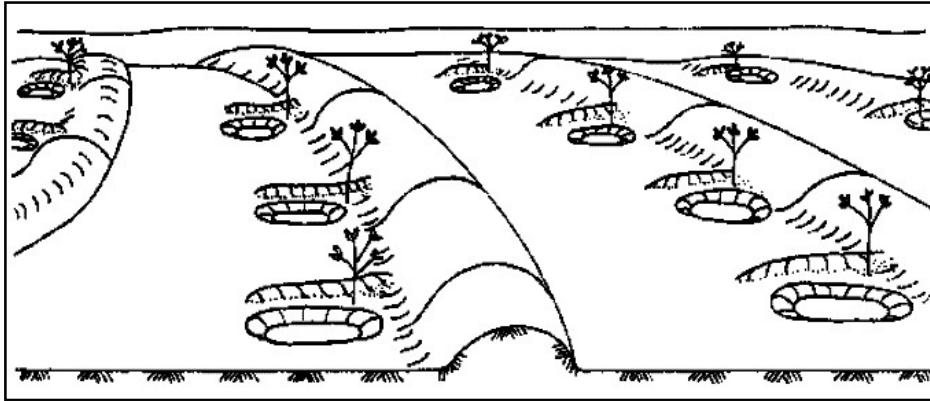
- 1) Why was the Ramsar Convention on Wetlands established in 1971?
 - a) To convert wetlands into urban settlements
 - b) To stop the encroachment and loss of wetlands
 - c) To connect wetlands to the cities
 - d) To establish wetlands as tourist hotspots
- 2) _____ was responsible for the establishment of Johads as a means to harvest rainwater.
 - a) Amrita Devi
 - b) Sukhomajri
 - c) Jawahar Rozgar Yojana
 - d) Tarun Bharat Sangh
- 3) The Earth Summit resulted in the creation of:
 - a) A ban on all gases
 - b) Separate areas which can be polluted
 - c) United Nations Convention to Combat Desertification
 - d) The Global Environmental Facility support
- 4) Identify the core zone in a biosphere reserve:
 - a) Inner most zone of resources and limited human activity
 - b) No human activity is allowed
 - c) Industries are allowed to carry out research
 - d) Activity cooperation between management and local people
- 5) This technique controls air pollution by spraying polluted gas with lime water to neutralise the acidic gas:
 - a) Cyclone filter
 - b) Wet scrubber
 - c) Electrostatic precipitator
 - d) Plate tower
- 6) Silvicultural systems that involve the complete removal of the forest stand is carried out in:
 - a) Seed-tree
 - b) Shelter wood
 - c) Single-tree selection
 - d) Clear cutting

- 7) Remote Sensing Satellites enable periodic monitoring in order to:
- Encourage the transportation of goods easily
 - Map the flooded areas and flood prone areas
 - Facilitate the process of deforestation
 - Control trade and commerce between nations
- 8) Identify the stage of demographic transition based on the criteria: Birth rates fell due to urbanization. Population growth began to level off.
- Stage one
 - Stage two
 - Stage three
 - Stage five
- 9) Food security can be achieved through:
- Boost in agricultural sciences and technology
 - Increase in population growth
 - Lack of availability of financial help
 - Preservation of biodiversity
- 10) Project Tiger was set up to fulfil the aim of:
- Carrying out research on tigers
 - Poaching of tigers for their skin
 - Increasing prey that tigers feed on
 - Protecting the Bengal Tigers
- 11) Highlight the advantages that arise from using sludge:
- Energy can be recovered from sludge through methane gas.
 - It provides additional efforts to dispose off the waste.
 - There is great difficulty due to its foul smell.
 - It can be used as a bio fertilizer.
- 12) Why is biodiesel a sustainable fuel for the future?
- It is readily available in the natural environment
 - It reduces greenhouse gas emissions
 - It can be heated at extreme temperatures
 - It is available in the gaseous form
- 13) High Yielding Variety seeds are considered as 'miracle seeds' because:
- They do not yield under irrigated conditions
 - They need higher doses of fertilizers
 - They have better quality yield
 - They are susceptible to pests
- 14) In what way is a hybrid vehicle different from conventional vehicles?
- It uses two or more power sources to move the vehicle.
 - It cannot get damaged in an accident.
 - The seats can automatically clean themselves.
 - There is constant repair of the engine.
- 15) Solar energy can be generated effectively due to the presence of:
- Electrical cell
 - Biochemical cell
 - Photovoltaic cell
 - Nuclear cell

- 16) A windbreak plantation is introduced as a means to:
- Enhance the beauty of the village
 - Create recreational parks for children
 - Aid in the generation of wind energy
 - Provide shelter from the wind and prevent soil erosion

Question 2

- 'Overgrazing leads to heavy environmental consequences.' Why does overgrazing occur despite its drawbacks? (2)
- Explain how the following technique is created. Highlight its role in the conservation of water. (2)



- What do you understand by the term 'ecological sustainability'? How can it be achieved in today's world? (2)
- Mention two ways in which MNC's can assist in the progress of developing countries. (2)

Question 3

- What were the aims behind the establishment of the Kyoto Protocol in Japan? (2)
- 'A land-use plan gives a vision for the future possibilities of development.' Justify this statement with respect to the aims of land-use planning. (2)
- Why was the international agreement 'CITES' set up? (2)
- Why are items like bagasse briquettes considered to be beneficial? (2)

Question 4

- Highlight the advantage that agro forestry can bring with regard to: (2)
 - Availability of resources
 - Interdependence between plants and animals
- In what way does composting generate useful material? (2)
- Highlight the ways in which a catalytic converter helps to create harmless compounds. (2)
- Comment on the drawbacks that arise due to tidal energy. (2)

SECTION B
(Attempt **any four** questions from this Section)

Question 5

- 1) Why is a landfill considered an important method in waste management? (5)
- 2) Observe the picture given below and explain in what way can we avoid the phenomenon through the process of reforestation. (5)



Question 6

- 1) Draw a comparison between the processes of nuclear fusion and nuclear fission. (5)
- 2) As a student of Environmental Science, highlight any five economic measures that the Indian Government can implement to control air pollution. (5)

Question 7

- 1) Explain how crop rotation and mulching contribute to soil conservation. (5)
- 2) How does the method in the image help to conserve water? (5)



Question 8

- 1) How can countries work towards sustainable development in the face of a growing population? (5)

- 2) Mention the consequences that the following elements have on the destruction of our biodiversity:
- i) Over hunting
 - ii) Climate change
 - iii) Increase in population
 - iv) Habitat loss
 - v) Overuse of resources

Question 9

- 1) How did the Mathura oil refinery impact the Taj Mahal? Mention four procedures undertaken by the refinery to resolve this impact. (5)
- 2) Demonstrate how the Montreal Protocol and the Vienna Convention ensure a healthier planet for future generations. (5)

Question 10

- 1) How did the individual in the picture contribute to the restoration of Ralegaon Siddhi? (5)



- 2) There are two theories to explain the 'Bhopal Gas Tragedy'. One that reflects 'corporate negligence' and the other 'worker sabotage'. Write a short note on the tragedy stating how corporate negligence led to the disaster. (5)

-----XXXXXXXXXX-----