

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:

- a) Encourage the transportation of goods easily
- b) Map the flooded areas and flood prone areas
- c) Facilitate the process of deforestation
- d) 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.

- a) Stage one
- b) Stage two
- c) Stage three
- d) Stage five

9) Food security can be achieved through:

- a) Boost in agricultural sciences and technology
- b) Increase in population growth
- c) Lack of availability of financial help
- d) Preservation of biodiversity

10) Project Tiger was set up to fulfil the aim of:

- a) Carrying out research on tigers
- b) Poaching of tigers for their skin
- c) Increasing prey that tigers feed on
- d) Protecting the Bengal Tigers

11) Highlight the advantages that arise from using sludge:

- a) Energy can be recovered from sludge through methane gas.
- b) It provides additional efforts to dispose off the waste.
- c) There is great difficulty due to its foul smell.
- d) It can be used as a bio fertilizer.

12) Why is biodiesel a sustainable fuel for the future?

- a) It is readily available in the natural environment
- b) It reduces greenhouse gas emissions
- c) It can be heated at extreme temperatures
- d) It is available in the gaseous form

13) High Yielding Variety seeds are considered as 'miracle seeds' because:

- a) They do not yield under irrigated conditions
- b) They need higher doses of fertilizers
- c) They have better quality yield
- d) They are susceptible to pests

14) In what way is a hybrid vehicle different from conventional vehicles?

- a) It uses two or more power sources to move the vehicle.
- b) It cannot get damaged in an accident.
- c) The seats can automatically clean themselves.
- d) There is constant repair of the engine.

15) Solar energy can be generated effectively due to the presence of:

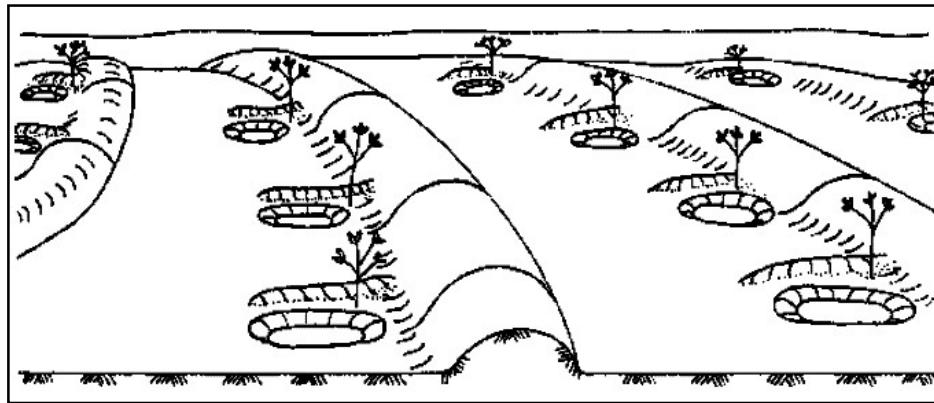
- a) Electrical cell
- b) Biochemical cell
- c) Photovoltaic cell
- d) Nuclear cell

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:
  - Availability of resources
  - Interdependence between plants and animals(2)
- 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)

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