



**DELHI PUBLIC SCHOOL NEWTOWN**  
**SESSION 2021-2022**  
**FINAL TERM EXAMINATION**

**CLASS: IX**  
**SUBJECT: ENVIRONMENTAL SCIENCE**

**FULL MARKS: 80**  
**TIME: 2 HOURS**

Candidates are allowed additional 10 minutes for only reading the paper.  
They must NOT start writing during this time.  
The Question Paper comprises *two* parts. Part-I is based on Multiple choice questions.  
Part-II is based on Subjective/ long questions.  
The intended marks for questions are given in brackets [ ].  
This paper consists of six pages.

**PART I**  
**(Compulsory)**

**QUESTION 1**

**[30]**

Choose the correct answer from the following:

- i. The full form of IMF is
  - a. Indian Monetary Fund
  - b. International Monetary Fund
  - c. International Monetary Foundation
- ii. Slums are formed in
  - a. Urban areas
  - b. Rural areas
  - c. Near the forests
- iii. Windbreaks are necessary to
  - a. Allow wind erosion
  - b. Allow water erosion
  - c. Check wind erosion
- iv. UV rays are harmful as they
  - a. Cause heart attacks
  - b. Cause skin cancer
  - c. Cause respiratory problems
- v. \_\_\_\_\_ is a greenhouse gas.
  - a. Methane
  - b. Hydrogen sulphide
  - c. Carbon monoxide

- vi. The thin buffer zone between the troposphere and the next layer is called the
  - a. Menopause
  - b. Tropopause
  - c. Exopause
- vii. The process used to describe situations where two or more species reciprocally affect each other's evolution.
  - a. Mutualism
  - b. Commensalism
  - c. Co evolution
- viii. \_\_\_\_\_ of earth's surface is covered by fresh water.
  - a. 75%
  - b. 3%
  - c. 90%
- ix. The irregular warming of the surface water in the Pacific is known as
  - a. Albedo
  - b. El nino
  - c. Lake effect
- x. The international treaty to protect the ozone layer from depletion is
  - a. Kyoto Protocol
  - b. Motreal Protocol
  - c. Earth Summit
- xi. How are nuclear wastes disposed of?
  - a. Incineration
  - b. Buried deep in the soil
  - c. Open dumping
- xii. During soil erosion the nutrients are lost from the
  - a. Top soil
  - b. Subsoil
  - c. Parent rock
- xiii. PAN is an example of
  - a. Primary pollutant
  - b. Secondary Pollutant
  - c. Aerosol

- xiv. Children when exposed to \_\_\_\_\_ suffer from lower IQ.
- a. Mercury
  - b. Lead
  - c. Aresenic
- xv. A carcinogen is any element that causes
- a. Heart diseases
  - b. Cancer
  - c. Cataract
- xvi. When plants are used to remove pollutants it is known as
- a. Bioremediation
  - b. Bio magnification
  - c. Phytoremediation
- xvii. Concentration of \_\_\_\_\_ decreases with increase in temperature.
- a. Dissolved oxygen
  - b. Atmospheric nitrogen
  - c. Dissolved carbon dioxide
- xviii. \_\_\_\_\_ is an example of surface water.
- a. Ocean
  - b. Sea
  - c. Stream
- xix. The areas where fresh water bodies merge with marine water bodies are known as
- a. Lakes
  - b. Deltas
  - c. Estuaries
- xx. \_\_\_\_\_ are areas where the water table is at, near or just above the surface where soils are water saturated.
- a. Rivers
  - b. Wetlands
  - c. Lakes
- xxi. Respiration is a \_\_\_\_\_ process
- a. Anabolic

- b. Metabolic
  - c. Catabolic
- xxii. Gas that leaked in the Bhopal Gas Tragedy is
  - a. Methane
  - b. Hydrogen sulphide
  - c. Methyl isocyanate
- xxiii. Which of the following is not a source of thermal pollution?
  - a. Hydroelectric power
  - b. Industrial effluents
  - c. Biomedical wastes
- xxiv. The sunlit upper layer of oceans is called
  - a. Mesopelagic zone
  - b. Epipelagic zone
  - c. Bathypelagic zone
- xxv. In which city is photochemical smog common?
  - a. Mexico
  - b. Kolkata
  - c. New York
- xxvi. Acid rain destroys the monuments and buildings by causing
  - a. Demolition
  - b. Stone cancer
  - c. Water logging
- xxvii. Example of primary aerosol is
  - a. Sulphur dioxide
  - b. Sea spray
  - c. CFC
- xxviii. Inland areas are drier and warmer than the coastal areas because of
  - a. Altitude
  - b. Distance from the sea
  - c. Prevailing winds

- xxix. The type of farming where the farmer grown enough to feed himself and his family is called
- Mixed farming
  - Slash and burn farming
  - Subsistence farming
- xxx. In which layer of the atmosphere the temperature increases with height but the air feels cool.
- Mesosphere
  - Thermosphere
  - Exosphere

## **PART II**

### **SECTION A (20 Marks)** **(Compulsory)**

#### **QUESTION 2**

[2×5=10]

- What is overgrazing? How can it be controlled?
- Where was the ozone hole discovered? Name one substance responsible for the formation of the ozone hole.
- Name the lowest layer of the atmosphere. What is its significance?
- What is the difference between acid deposition and acid precipitation?
- What is thermal inversion? What is its effect?

#### **QUESTION 3**

[2×5=10]

- What are the impacts of aerosols?
- What is the difference between point and non-point sources of pollution? Give examples of both.
- Explain the terms cryosphere and permafrost.
- What is coral bleaching? Why does it occur?
- Name two biodiversity hotspots of India

**SECTION B (30 Marks)**  
(Attempt *any three* questions)

**QUESTION 4**

- a. List the threats responsible for the destruction of the rainforests. [5]
- b. Carbon is stored in our planet in major sinks. Enlist. [5]

**QUESTION 5**

- a. What effect does air pollution have on food security? [5]
- b. What are the effects of global warming? [5]

**QUESTION 6**

- a. Ozone layer depletion has adverse effect on the environment. Justify. [5]
- b. Suggest solutions to land pollution problem. [5]

**QUESTION 7**

- a. What are the causes of rural poverty? Explain. [5]
- b. Write about any five impacts of urbanization. [5]