



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

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

[$2 \times 5 = 10$]

- 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

[$2 \times 5 = 10$]

- 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]