



DELHI PUBLIC SCHOOL NEWTOWN
SESSION 2021-22
FINAL TERM EXAMINATION

CLASS: IX
SUBJECT: ENVIRONMENTAL APPLICATIONS

FULL MARKS: 100
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 five pages.

PART I
(Compulsory)

Question 1

[40]

Choose the correct option for each of the following questions.

- i. Who coined the term ecology?
 - a) Robert Brown
 - b) Robert Hooke
 - c) Ernst Haeckel
- ii. Tropical grasslands in South Africa is known as
 - a) Veldt
 - b) Pampas
 - c) Downs
- iii. Earth day is celebrated on
 - a) 5th June
 - b) 22nd April
 - c) 3rd May
- iv. CD s are examples of
 - a) Hazardous waste
 - b) Domestic waste
 - c) E waste
- v. _____ is an example of ODS
 - a) Chlorofluorocarbons
 - b) Sulphur dioxide
 - c) Carbon monoxide
- vi. Fishing industries downstream may suffer due to
 - a) Construction of railways through forests
 - b) Construction of dams
 - c) Mining
- vii. _____ are areas rich in biodiversity.
 - a) Desert
 - b) Rainforests
 - c) Grasslands

- viii. _____ was famous leader of the Chipko movement.
a) Indira Gandhi
b) Gaura Devi
c) Gayatri Devi
- ix. An example of non-renewable resource is _____.
a) Water
b) Minerals
c) Soil
- x. The traditional rainwater harvesting system of Rajasthan is known as _____.
a) Eris
b) Johads
c) Zings
- xi. Burning of wastes in high temperature is called
a) Combustion
b) Incineration
c) Composting
- xii. The most favoured option of waste management is
a) Reuse
b) Recycle
c) Prevention
- xiii. The full form of IUCN is
a) Indian Union for Conservation of Nature
b) International Union for Conservation of Nature
c) International Union for Conservation of Nature and Natural Resources.
- xiv. The example of micronutrient is
a) Carbon
b) Nitrogen
c) Silicon
- xv. A pond or lake is divided into _____ zones.
a) 4
b) 3
c) 2
- xvi. Coral bleaching is a result of
a) Oil spill
b) Waste dump
c) Global warming
- xvii. The international treaty to save wetlands is known as
a) Montreal Protocol
b) Kyoto Protocol
c) Ramsar Convention
- xviii. Seral community on sand is called
a) Xerosere
b) Halosere
c) Psammosere
- xix. Nene is found in
a) Hawaii
b) Australia
c) Madagascar

- xx. The measure of human demand on earth's ecosystem is called
 - a) Ecological footprint
 - b) Automation
 - c) Carrying capacity
- xxi. Composting with the help of earthworm is called
 - a) Mulching
 - b) Vermicomposting
 - c) Green manuring
- xxii. The world environmental agreement on wastes is called the
 - a) Brazil Convention
 - b) Basal Convention
 - c) Rio Convention
- xxiii. Rabbit is an example of
 - a) Autotroph
 - b) Primary consumer
 - c) Secondary consumer
- xxiv. Grass→Grasshopper→Frog→Snake→Hawk
In the above food chain which one is the top carnivore?
 - a) Grasshopper
 - b) Snake
 - c) Hawk
- xxv. Sundarbans is an example of
 - a) National Park
 - b) Biosphere Reserve
 - c) Wildlife Sanctuary
- xxvi. Vilayati Babul was introduced to combat
 - a) Water pollution
 - b) Desertification
 - c) Eutrophication
- xxvii. Tundra reindeer and forest reindeer are examples of
 - a) Exotic species
 - b) Ecospecies
 - c) Endangered species
- xxviii. Who is the 'Father of Permaculture'?
 - a) Fakuoka
 - b) Bill Mollison
 - c) Rudolph Steiner
- xxix. Chemical fertilizers and pesticides are also known as
 - a) Agrochemicals
 - b) Organic chemicals
 - c) Pharmaceuticals
- xxx. The colloidal suspension of particles within the atmosphere is known as
 - a) CFC
 - b) Aerosols
 - c) Particulate matter
- xxxi. The seal or logo indicating a product has met certain environmental standards is known as
 - a) Ecofriendly
 - b) Ecolabel
 - c) Econorm

- xxxii. Waste in a state between solid and liquid is known as
 a) Slurry
 b) Sewage
 c) Sludge
- xxxiii. CITES was implemented to
 a) Protect water resources
 b) Protect soil resources
 c) Protect wild flora and fauna
- xxxiv. Food security is based on ____pillars
 a) 6
 b) 3
 c) 4
- xxxv. Crops that need large amount of water to grow are called
 a) HYV crops
 b) Exotic crops
 c) Water Intensive Crops
- xxxvi. Biological centers where genetic materials are preserved is called
 a) Sanctuaries
 b) Gene banks
 c) Restricted zones
- xxxvii. The full form of HRM is
 a) Health Risk Management
 b) Human Rupee Management
 c) Human Resource Management
- xxxviii. Which of the following is not an appropriate method for managing non-biodegradable wastes?
 a) Incineration
 b) Composting
 c) Landfill
- xxxix. Smog can cause
 a) Irritation of eyes
 b) Scurvy
 c) Anaemia
- xl. Chernobyl disaster is an example of
 a) War
 b) Natural calamity
 c) Industrial disaster

PART II

SECTION A (15 Marks)

Attempt all questions from this Section

Question 2

- | | |
|---|-----|
| a. Why is pyramid of energy never inverted? | [2] |
| b. Is food aid a solution to food security? Discuss. | [2] |
| c. Write any two characteristics of urban poverty. | [2] |
| d. Why are radioactive wastes harmful? Give an example of such waste. | [3] |
| e. Mention any three reasons how carbon cycle is disrupted by man. | [3] |

- f. Who is known as the ‘father of Green Revolution ‘in India? Which state was first chosen for implementation of the green revolution and why? [3]

SECTION II (45 MARKS)
(Attempt any 3 questions from this section)

Question 3

- a. Automation is a boon or curse? Discuss. [5]
b. State the reasons for the shift of rural people to urban areas. What is this activity known as? Mention any two impacts of this activity on the environment. [2+1+2]
c. Identify the organism from the picture given below and state its significance. [5]



Question 4

- a. List the various impacts of waste accumulation. [5]
b. Why is there water scarcity in India? [5]
c. Industrial growth leads to environmental degradation. Justify the statement. [5]

Question 5

- a. Mention the causes responsible for destruction of forests. [5]
b. What do you mean by human resources? Give the ways in which human resources can be motivated. [5]
c. What is Van Mahotsav? Who initiated it and when? Which time of the year does it take place? How do people celebrate it? [5]

Question 6

- a. Define ecological succession. What are the different steps of succession? [5]
b. State the reasons for change in land use patterns. [5]
c. What did Robert Malthus propose? What is carrying capacity? [5]