



**DELHI PUBLIC SCHOOL NEWTOWN**  
**SESSION 2022-2023**  
**FINAL EXAMINATION**

**CLASS: IX**

**SUBJECT: ENVIRONMENTAL APPLICATIONS [SET-A]**

**FULL MARKS: 100**

**TIME: 2 HOURS**

*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.*

*The time given at the head of this Paper is the time allowed for writing the answers.*

**Attempt all questions from Section A and any four questions from Section B.**

**The intended marks for questions or parts of questions are given in brackets [ ].**

**This question paper consists of four printed pages.**

**SECTION A**

**(Attempt all questions from this Section)**

**Question 1**

Choose the correct answer and write the correct option

**[20]**

1. The full form of L.I.S.A is
  - a) Lesser Input Sustainable Agriculture
  - b) Low Input Sustainable Agriculture
  - c) Lesser Input Subsistence Agriculture
  - d) Low Input Subsistence Agriculture
2. “Farm Organism” is a concept proposed by
  - a) Masanobu Fakuoka
  - b) Bruce Charles Bill Mollison
  - c) Norman E. Borlaug
  - d) Rudolph Steiner
3. The meaning of acronym HRM is
  - a) Human Relations Management
  - b) Humanistic Resource Management
  - c) Human Resource Management
  - d) Human Resourceful Management
4. The second serial stage in a xerosere is
  - a) Mosses
  - b) Foliose Lichen
  - c) Crustose lichen
  - d) Shrubs
5. Greenhouse effect is enhanced in the environment by the gas
  - a) Carbon dioxide
  - b) Carbon monoxide
  - c) Nitrous oxide

- d) Sulphur dioxide
6. The most suitable method to dispose of biomedical waste is
- a) Open dumping
  - b) Sanitary Landfill
  - c) Incineration
  - d) Composting
7. There was a massive protest against the building of Sardar Sarovar dam on River\_\_\_\_\_
- a) Narmada
  - b) Godavari
  - c) Krishna
  - d) Cauvery
8. The mixture of water and dissolved solids that accumulates as water passes through waste and collects at the bottom of a landfill site is
- a) Sewage
  - b) Sludge
  - c) Leachate
  - d) Effluent
9. International Day for Biological Diversity
- a) 22<sup>nd</sup> May
  - b) 5th June
  - c) 16<sup>th</sup> September
  - d) 6<sup>th</sup> November
10. The animal depicted in the logo of CITES is
- a) Rhinoceros
  - b) Elephant
  - c) Tigers
  - d) Rhinoceros
11. Land – use planning purpose is to \_\_\_\_\_
- a) Use of land and reduce its quality
  - b) Avoid misuse of land and enhance its quality
  - c) Use of land and enhance its degradation
  - d) Enhance land degradation and misuse of land
12. Mission of Ramsar Convention is to conserve
- a) Wetland
  - b) River
  - c) Ocean
  - d) Desert
13. The full form of FCCC is
- a) Framework Convenience on Climate Change
  - b) Framework Cooperation on Climate Change
  - c) Framework Convention on Climate Change
  - d) Framework Council o Climate Change
14. Due to which of the following pollutant is the Taj Mahal threatened?
- a) Sulphur dioxide
  - b) Carbon dioxide
  - c) Carbon monoxide
  - d) Ozone

- 15. Which is not a cause for resource depletion?**
- a) Technological and industrial growth
  - b) Sustainable living
  - c) Lavish lifestyle
  - d) Unsustainable use of resource
- 16. Which is the main component of Biogas?**
- a) Propane
  - b) Butane
  - c) Ethane
  - d) Methane
- 17. Category of farming where the farmers are poor and grow crops enough to feed their family is called**
- a) Sufficient farming
  - b) Efficient farming
  - c) Subsistence farming
  - d) Commercial farming
- 18. The phenomenon of using a predator for controlling pest is known as**
- a) Mechanical control
  - b) Biological control
  - c) Genetic Engineering
  - d) Chemical Control
- 19. Conservation within natural habitat is**
- a) In-situ conservation
  - b) Ex-situ conservation
  - c) In-vivo conservation
  - d) None
- 20. Which of the following is not a characteristic of HYV seeds?**
- a) Grows very fast
  - b) Requires less water and nutrients
  - c) Yield is very large
  - d) Not indigenous variety

### **Question 2**

- i. What are water intensive crops? Give an example. [2]
- ii. Define carrying capacity. [2]
- iii. Explain with examples why introduction of exotic species are harmful. [3]
- iv. Define population, demography and ecological footprint. [3]

### **Question 3**

- i. What is poverty? Give two causes of poverty. [2]
- ii. Explain any two hindrances to food security in India. [2]
- iii. 'Ubsu', 'Belesu' and 'Balasu' is the slogan of which movement? What do the words mean? What was the aim of the movement? [3]
- iv. What are the issues related to water in India? Discuss any three. [3]

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

**Question 4**

- i. Write the ecological consequences of green revolution. [5]
- ii. What is automation? Discuss its advantages and disadvantages. [5]
- iii. State the causes of extinction of species. [5]

**Question 5**

- i. What do you mean by human resource? Give four ways by which human resource can be motivated. [5]
- ii. What is ecotourism? State the importance of coral reefs. Name one famous coral reef. [5]
- iii. What is responsible for the increased number of vehicles on road? Mention the consequences of increased transportation. [5]

**Question 6**

- i. Write the characteristic features of the savannah. [5]
- ii. What is the difference between reuse and recycle? Mention three ways to recycle waste. [5]
- iii. Contrast between Sanctuary and Biosphere Reserve. [5]

**Question 7**

- i. Indicate the type of disposal method for the following:-
  - a) Plastic bottle
  - b) Sample tissue
  - c) Radioactive wastes
  - d) Cartridge
  - e) Egg shell[5]
- ii. What can you do in your daily life to conserve resources? [5]
- iii. What is jhumming? Why is it not recommended? [5]

**Question 8**

- i. Explain Malthus Theory on population. [5]
- ii. Define succession. Differentiate between primary and secondary succession. [5]
- iii. How does captive breeding help in conservation? [5]

**Question 9**

- i. What will happen if people from village come and settle in Kolkata? [5]
- ii. How can biotechnology ensure food security? [5]
- iii. What is Basel Convention? What is its aim? [5]