



**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 Fukuoka
  - 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 seral 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) 5<sup>th</sup> 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:- [5]
  - a) Plastic bottle
  - b) Sample tissue
  - c) Radioactive wastes
  - d) Cartridge
  - e) Egg shell
- 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]