



**DELHI PUBLIC SCHOOL NEWTOWN**  
**SESSION 2021-22**  
**HALF YEARLY EXAMINATION (ONLINE)**

**CLASS: IX**

**SUBJECT: ENVIRONMENTAL APPLICATIONS  
(PAPER-I)**

**FULL MARKS: 60**

**TIME: 1hour 45 mins**

**Instructions:**

- The paper consists of *two* printed page.
- Answers should be to the point.
- Copy the question number carefully before answering the questions.

**SECTION I (15 Marks)**

*Attempt all questions from this Section*

**Question 1**

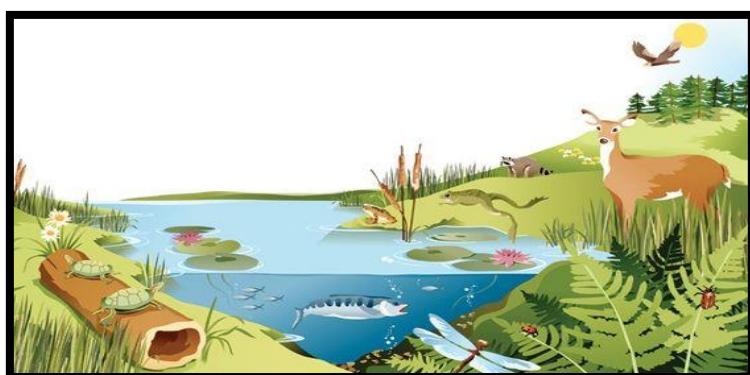
- a. Why are food chains not very long? [2]
- b. Give an example to demonstrate interdependence of plants and animals. [2]
- c. Write two conditions that influence succession. [2]
- d. Define the terms xerosere, halosere and psamose. [3]
- e. What is smog? Why is it harmful to humans? [3]
- f. Wars have devastating effect on the environment. Discuss. [3]

**SECTION II (45 MARKS)**

*(Attempt any three questions from this section)*

**Question 2**

- a. Mention any five adaptations of desert animals. [5]
- b. State the ecological impacts of construction of dams. [5]
- c. Identify the ecosystem given below. Describe the different zones of the given ecosystem. [5]



### **Question 3**

- a. What is the term used for a species that exerts a large, stabilising influence throughout an ecological community. Explain the role of these species with an example. [5]
- b. Write the drawbacks of captive breeding. Name two places where captive breeding is practiced. [5]
- c. Name a biosphere reserve in India. What are the different zones of the biosphere reserve? What is the focus of this type of conservation? [5]

### **Question 4**

- a. The increase in the number of vehicles in the urban areas consequently led to increase in air pollution. Suggest ways to address this problem. [5]
- b. Define biogeochemical cycle. Is carbon dioxide a useful or harmful gas? Explain your answer. How is man responsible in disrupting this cycle? [5]
- c. State the difference between lentic and lotic ecosystems. Give one example of each. What economic benefits can be obtained by local people if these ecosystem areas can be used for ecotourism? [5]

### **Question 5**

- a. Define ecological succession. What are the differences between primary and secondary succession. [5]
- b. List the probable causes of extinction of species. [5]
- c. How can forests be saved? [5]