



**DELHI PUBLIC SCHOOL NEWTOWN**  
**SESSION 2020-21**  
**HALF YEARLY EXAMINATION (ONLINE)**

**CLASS: IX**  
**SUBJECT: ENVIRONMENTAL APPLICATIONS**

**FULL MARKS: 60**  
**TIME: 1hour 30mins**

**Instructions:**

- All questions are compulsory.
- This paper consists of two printed pages.
- Answers should be to the point.
- Copy the question number carefully before answering the questions.

**SECTION A (20 MARKS)**

**Question 1**

- a) Name the annual tree planting festival celebrated in the month of July every year. Who initiated this programme? [2]
- b) A forest of mangrove trees is an example of a detrital ecosystem. Comment on it citing an example of a food chain. [2]
- c) What do you mean by MVP? [2]
- d) Expand CITES and IUCN. [2]
- e) Wars have a devastating effect on the environment. State any three reasons to justify the statement. [3]
- f) Study the food chain given below and answer the following: [3]

Grass--→ Grasshopper--→ Shrew--→ Owl.

- i. What is each and every level of this food chain called?
- ii. What is the importance of grass in this food chain?
- iii. How much energy gets transferred from one level to the next?
- g) How extinction of species affect biosphere? [3]
- h) Name the international legally binding treaty initiated by UNEP and was open for signature in the Earth Summit. Mention any two goals of the treaty. [3]

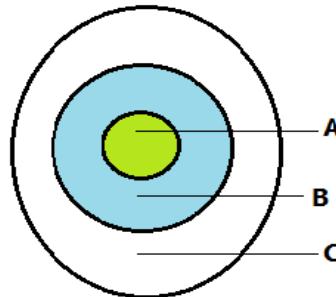
**SECTION B (40 MARKS)**

**Question 2**

- a) “Ubsu, Belesu and Balasu” is the popular slogan of a particular movement. In relation to the given statement answer the following questions: [5]
  - i. Name the movement.
  - ii. Where did it start?
  - iii. State three objectives of the above movement.
- b) Explain the steps of carbon cycle with a simplified line diagram (outline the diagram with a pen). [5]

**Question 3**

- a) Sea otter is a keystone species. Give reasons in support of the statement. [5]  
b) Study the simplified diagram given below and answer the questions that follow [5]



- i. What does the diagram indicate?
- ii. Name the zones marked as A, B and C and state the importance of each zone.
- iii. What sort of conservation strategy does it follow?

**Question 4**

- a) Construction of multipurpose power projects is a great developmental move but it comes at a heavy cost on the environment. Justify the statement stating five reasons. [5]  
b) Explain the steps involved in forming a climax community. [5]

**Question 5**

- a) Differentiate between Macro and Micronutrients stating one example each.  
What are decomposers and state their importance in an ecosystem. [5]  
b) Study the picture given below and answer the questions that follow [5]



- i. Name the conservation strategy followed in the above picture.
- ii. State any two advantages and two disadvantages of the strategy followed.