



DELHI PUBLIC SCHOOL NEWTOWN
SESSION 2024-25
MONDAY TEST

CLASS: IX
SUBJECT: ENVIRONMENTAL APPLICATIONS

FULL MARKS: 40
DATE: 17.05.2024

General Instructions:

- All questions are compulsory.
- Answers should be to the point.
- Copy the question number carefully before answering the questions.
- Marks will be deducted for spelling errors.
- The paper consists of two printed pages.

SECTION A (20 Marks)

QUESTION 1

Choose the correct option from the following:

[1×10=10]

1. Which of the following is an artificial ecosystem?
 - a) Pond
 - b) Grassland
 - c) Garden
 - d) Forest
2. Biosphere is the global sum of all ecosystems. It consists of
 - a) Flora and Fauna
 - b) Lithosphere, hydrosphere and atmosphere
 - c) Species, population and community
 - d) Producers, consumers and decomposers
3. Urbanization leads to development of dispersed units outside compact urban and village enters along highways called
 - a) Slums
 - b) Sprawls
 - c) Towns
 - d) Refuge
4. Assertion: Mining requires large scale clearance of forest or any other vegetation.
Reason: Various mining processes release harmful chemicals like mercury, lead, arsenic etc.
 - a) Both Assertion and Reason are true, and Reason is the correct explanation for Assertion.
 - b) Both Assertion and Reason are true, but Reason is not the correct explanation for Assertion.
 - c) Assertion is true but Reason is false.
 - d) Assertion is false and Reason is true.
5. The organism which occupies the highest position in the food chain is called the
 - a) Top carnivore
 - b) Apical carnivore
 - c) Vertex carnivore
 - d) Consumer 4
6. Which of the following is not a biogeochemical cycle?
 - a) Carbon cycle
 - b) Hydrological cycle
 - c) Oxygen cycle
 - d) Recycle

7. A group of organism that is actually or potentially are capable of interbreeding in nature is called _____
- Species
 - Community
 - Population
 - Ecosystem
8. A network of interconnected food chains is called a food web. Food webs are significant because it provides
- habitat for the organisms
 - alternative food to the organisms
 - strength to the organisms
 - binding potential to the organisms
9. If A represents ‘insects’, B represents ‘hawk’, C represents ‘snake’ and D represents ‘frog’, which of the following food chain is in the correct order?
- A-D-C-B
 - C-D-B-A
 - D-C-A-B
 - B-A-C-D
10. Who initiated the festival depicted in the picture given below?



- K.M.Munshi
- Ernst Haeckel
- Robert Hooke
- K.L.Munshi

QUESTION 2

- | | |
|---|-----|
| a) State any two reasons for deforestation. | [2] |
| b) What is the significance of Vanmahotsav? Who first initiated it? | [2] |
| c) Why do you think industrialization have devastating effect on the environment? | [3] |
| d) Mention the core functions of the ecosystem. | [3] |

SECTION B (20 Marks)

QUESTION 3

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|---|-----|
| a) How does Carbon cycle operate in nature? Mention any two anthropogenic activities that disrupt the said cycle. | [5] |
| b) Increase in population resulted in corresponding increase in means of transport. The increase in number of vehicles in the urban areas consequently led to increase in air pollution, mainly due to burning of fossil fuels. Suggest any 5 ways to reduce vehicular pollution. | [5] |

QUESTION 4

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|--|-----|
| a) Construction of large dams incur a heavy cost on ecology of the area. Explain. | [5] |
| b) Which ecological movement is shown in the picture? Give a brief note on the same. | [5] |

