



DELHI PUBLIC SCHOOL NEWTOWN
SESSION 2022-23
MONDAY TEST

CLASS: IX
SUBJECT: ENVIRONMENTAL APPLICATIONS

FULL MARKS: 40
DATE: 20.06.22

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 *three* printed page.

SECTION A(20 Marks)

QUESTION 1

Choose the correct option from the following:

[1×10=10]

1. The self regulatory and self sustaining structural and functional unit of biosphere is
 - i. Organism
 - ii. Ecosystem
 - iii. Population
 - iv. Community
2. In the given food chain, suppose the amount of energy at fourth trophic level is 3 kJ, what will be the energy available at the primary consumer level?
Grass → Grasshopper → Frog → Snake → Hawk
 - i. 3KJ
 - ii. 30KJ
 - iii. 300KJ
 - iv. 3000KJ
3. Tropical grasslands of South Africa are known as
 - i. Veld
 - ii. Steppe
 - iii. Downs
 - iv. Prairie
4. “The rational use of forest resource” in Kannada is popularly known as
 - i. Ubsu
 - ii. Balasu
 - iii. Belesu
 - iv. Upsu

5. Organisms of a higher trophic level which feed on several types of organisms belonging to a lower trophic level constitute the
 - i. food web
 - ii. ecological pyramid
 - iii. ecosystem
 - iv. food chain
6. When a big fish eats a small fish which eats water fleas supported by phytoplankton water fleas are
 - i. Producers
 - ii. Primary consumers
 - iii. Secondary consumers
 - iv. Top consumers
7. What do we call a person who has been forced to leave their home, perhaps by war or a natural disaster (such as drought), and move away without having another home to go to?
 - i. Immigrant
 - ii. Migrant
 - iii. Refugee
 - iv. Emigrant
8. What does FSI stand for?
 - i. Forest Surveillance of India
 - ii. Forest Survey of India
 - iii. Forest Supervision of India
 - iv. Forest Strategies of India
9. Greenhouse effect is enhanced in the environment by the gas
 - i. Carbon dioxide
 - ii. Carbon monoxide
 - iii. Fluorocarbons
 - iv. Nitrogen dioxide
10. What type of food chain is it?
dead animals → blowfly maggot → maggots → frog → snake
 - i. Predator food chain
 - ii. Decomposer food chain
 - iii. Detrital food chain
 - iv. Grazing food chain

QUESTION 2

Answer the following questions:

- a) Differentiate between a food chain and food web. What is a top carnivore? [2]
- b) Explain the role of decomposers in an ecosystem. Give an example of a decomposer. [2]

- c) How is acid rain caused? Mention two ill effects of acid rain. [3]
d) Indicate the problems of urban poverty. [3]

SECTION B(20 Marks)

Answer the following questions:

QUESTION 3

- a) Wars have a devastating effect on the environment. Discuss. [5]
b) Explain with a diagram the Upright and Inverted Pyramid of Number. [5]

QUESTION 4

- a) Write a short note on “Hug the Trees Movement” emphasizing on [1+2+2]
i. Where the movement started?
ii. Any two leaders of the movement.
iii. The achievement of the movement.
- b) Define Ecology. Who coined the term ‘Ecology’? Why is the study of Ecology important? [1+1+3]