



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]