

ST23202 - SCIENCE
UNIT 8 TEST

1. It is the scientific study of the relationships between living organisms and their environment.
a. Ecosystem b. Ecology c. Biomes d. Biodiversity
2. A living being that can act or function independently is referred to as an organism.
a. Species b. Population c. Ecosystem d. Community
3. It is a large area characterized by its vegetation, soil, climate, and wildlife.
a. Biome b. Ecology c. Ecosystem d. Biodiversity
4. It is a group of creatures belonging to the same species that coexist in the same area and communicate with one another.
a. Population b. Community c. Biotic Factor d. Abiotic Factor
5. It refers to the community of organisms living in the same habitat together with the nonliving components.
a. Ecology b. Ecosystem c. Community d. Population
6. Living components of an ecosystem, including plants, animals, and microorganisms.
a. Species b. Biotic c. Abiotic d. Habitat
7. Non-living components of an ecosystem, such as sunlight, temperature, water, and soil.
a. Biotic b. Abiotic c. Ecosystem d. Ecology
8. These are the plants in the ecosystem, which can produce their own energy requirement via photosynthesis, which are called autotrophs.
a. Consumer b. Producer c. Decomposer d. Population
9. These are referred to as heterotrophs because organisms depend on other organisms for food.
a. Consumer b. Producers c. Decomposer d. Population
10. These refers to fungi and bacteria, which are the saprophytes. They help break down organic matter and transform this matter into nitrogen and carbon dioxide.
a. Consumer b. Decomposer c. Producer d. Community
11. These animals hunt, kill, and consume other organisms for food.
a. Prey b. Predator c. Symbiosis d. Competition
12. It is a relationship between two different organisms through which one of them benefits. The other organism may also benefit, be unaffected, be harmed or even killed.
a. Symbiotic b. Competition c. Predator d. Prey-Predator
13. It is the straight and single pathway for the flow of energy in an ecosystem, through different species of organisms.
a. Food chain b. Food web c. Food station d. Food Eater

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14. It is a complicated pathway of an ecosystem consisting of numerous food chains of the different trophic levels, through which the energy flow.

- a. Food chain
- b. Food web
- c. Food network
- d. Food station

15. It refers to the gradual accumulation of substances, such as pollutants or toxins, in living organisms over time.

- a. Biome
- b. Biodiversity
- c. Bioaccumulation
- d. Biomagnification

Part 2: Analysis - Look at the diagram and answer the following questions.

16. Producer:

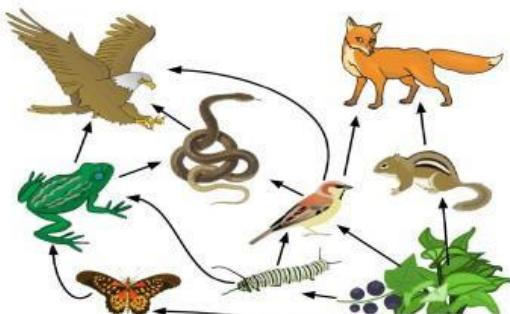
17. Herbivore:

18. Carnivore:

19. Omnivore:

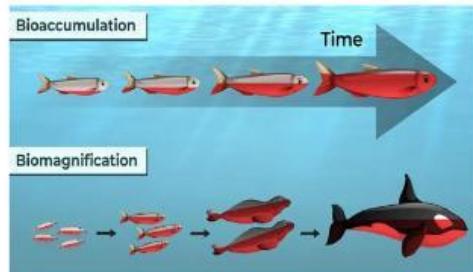
20. Choose ONE food chain with 4 stages:

_____ -> _____ -> _____ -> _____



Part 3: Explain the following.

21. What is Bioaccumulation?



22. What is Biomagnification?

23. Explain the ENERGY transfer in a food chain.

24. What is Prey - Predator relationship? Give an example.

25. What is a Symbiotic Relationship? Give an example.