

## Assessment Worksheet

**Grade 7**

**Subject- Science**

**Topic- Ecosystem**

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### Section A - Multiple Choice Questions (1 mark each)

*(Choose the correct answer)*

1. Which of the following is a biotic component of an ecosystem? a) Sunlight  
b) Water  
c) Plants  
d) Soil
2. The process by which plants prepare their own food is called: a) Respiration  
b) Photosynthesis  
c) Decomposition  
d) Transpiration
3. Which of the following is a primary consumer? a) Lion  
b) Grasshopper  
c) Eagle  
d) Snake
4. Which gas is released by plants during photosynthesis? a) Oxygen  
b) Carbon dioxide  
c) Nitrogen  
d) Hydrogen
5. Which of the following is a decomposer? a) Fungi  
b) Deer  
c) Eagle  
d) Fish
6. The largest ecosystem on Earth is: a) Desert  
b) Ocean  
c) Forest  
d) Grassland
7. An example of a secondary consumer is: a) Rabbit  
b) Tiger  
c) Grass  
d) Algae
8. The term 'flora' refers to: a) Animal species  
b) Plant species  
c) Decomposers  
d) Bacteria
9. An example of a natural ecosystem is: a) Aquarium  
b) Garden  
c) Forest  
d) Farm

10. Which of the following is not an abiotic component? a) Air  
 b) Water  
 c) Bacteria  
 d) Temperature
11. The main source of energy for an ecosystem is: a) Wind  
 b) Sunlight  
 c) Water  
 d) Soil
12. A food web consists of: a) A single food chain  
 b) Multiple interconnected food chains  
 c) Only producers  
 d) Only herbivores
13. In the energy pyramid, the highest level consists of: a) Primary consumers  
 b) Secondary consumers  
 c) Tertiary consumers  
 d) Producers
14. Nitrogen fixation is primarily carried out by: a) Fungi  
 b) Bacteria  
 c) Insects  
 d) Birds
15. The process of breaking down dead organic matter into simpler substances is known as: a) Photosynthesis  
 b) Decomposition  
 c) Transpiration  
 d) Respiration

**Section B - Write in Correct Order      2 MARKS**

16. Arrange the following components of a food chain in the correct order:  
 ○ Snake, Grass, Hawk, Rabbit
17. Arrange the following in correct order of energy flow:  
 ○ Decomposers, Herbivores, Producers, Carnivores

**Section C - Matching (2 marks each)**

18. Match the following:

Column A	Column B
Producer	Eagle
Primary Consumer	Grass
Secondary Consumer	Tiger
Decomposer	Fungi

**Section D - Name the Following**      **4 MARKS**

19. The type of consumer that eats both plants and animals.
20. The process by which green plants make their food.
21. The gas absorbed by plants during photosynthesis.
22. The organisms responsible for breaking down organic matter.

**Section E - Fill in the Blanks (2 marks each)**

*(Use suitable words to complete the paragraph)*

23. An ecosystem consists of \_\_\_\_\_ and \_\_\_\_\_ components. The \_\_\_\_\_ are responsible for producing their own food using sunlight, while the \_\_\_\_\_ depend on others for food. The \_\_\_\_\_ break down dead organisms into simpler substances.

**Section F - Short Answer Questions**      **5 MARKS [Q1 2 MARKS]**

24. Define an ecosystem and its types.
25. Explain the interdependence of biotic and abiotic factors.
26. What are the different trophic levels in a food chain?
27. Discuss the role of decomposers in maintaining ecological balance.

*(Each question above has 5 subparts, each carrying 2 marks.)*

**Section G - Long Answer Questions (5 marks)**

- . Discuss the impact of pollution on an ecosystem and suggest conservation measures.