#### 7. Which of the following is a consumer in an **Ecosystems - Multiple Choice Worksheet** ecosystem? a) Tree Date: \_\_\_\_\_ b) Lion c) Grass **Instructions:** Choose the correct answer from the options d) Sunlight provided. 8. What role do decomposers play in an ecosystem? a) They consume producers b) They convert solar energy into chemical energy 1. What is an ecosystem? c) They break down dead organisms and recycle a) A group of similar organisms living together nutrients b) A community of living organisms interacting with d) They capture sunlight for photosynthesis their environment c) A single species interacting with the environment 9. Which of the following best describes a food chain? d) A population of organisms in one area a) A map showing the movement of organisms in an ecosystem 2. Which of the following is a biotic factor in an b) A sequence showing how energy is transferred from ecosystem? one organism to another a) Sunlight c) A chart of the population of species in an ecosystem b) Water d) A process by which plants make their food c) Plants d) Rocks 10. What is biodiversity? a) The variety of living organisms in an ecosystem 3. Which term describes non-living components of an b) The amount of energy stored in an ecosystem ecosystem? c) The relationship between predators and prey a) Biotic d) The number of consumers in a food chain b) Abiotic c) Symbiotic 11. Which of the following is an example of a primary d) Heterotrophic consumer? a) Eagle 4. Which of the following is an example of an abiotic b) Grasshopper factor? c) Grass a) Bacteria d) Fungi b) Temperature c) Trees 12. What is a habitat? d) Animals a) The role of an organism in an ecosystem b) The place where an organism lives 5. What is the primary source of energy for most c) A group of organisms of the same species ecosystems? d) The process by which organisms interact a) Water 13. In an energy pyramid, which level contains the b) Soil c) The sun

d) Wind

ecosystem?

c) Plants d) Carnivores

a) Herbivores b) Decomposers

6. Which organisms are considered producers in an

### most energy?

- a) Tertiary consumers
- b) Secondary consumers
- c) Primary consumers
- d) Producers

## 14. Which of the following is a limiting factor in an ecosystem?

- a) Space
- b) Sunlight
- c) Water
- d) All of the above

### 15. What term describes the role an organism plays in its ecosystem?

- a) Habitat
- b) Niche
- c) Food chain
- d) Trophic level

### 16. What is the effect of a keystone species on an ecosystem?

- a) It has little impact on other organisms
- b) It helps regulate the population and structure of the ecosystem
- c) It is always a top predator
- d) It only affects the producers in the ecosystem

#### 17. What process do producers use to create energy?

- a) Respiration
- b) Decomposition
- c) Photosynthesis
- d) Predation

## 18. What happens to energy as it moves up the trophic levels in an ecosystem?

- a) It increases
- b) It decreases
- c) It remains the same
- d) It cycles back to the producers

# 19. What is the relationship called when two organisms live closely together and both benefit?

- a) Parasitism
- b) Mutualism
- c) Commensalism
- d) Competition

### 20. Which of the following is an example of a freshwater ecosystem?

- a) Ocean
- b) Coral reef
- c) Lake
- d) Desert

### **Answer Key**

- 1. b) A community of living organisms interacting with their environment
- 2. c) Plants
- 3. b) Abiotic
- 4. b) Temperature
- 5. c) The sun
- 6. c) Plants
- 7. b) Lion
- 8. c) They break down dead organisms and recycle nutrients
- 9. b) A sequence showing how energy is transferred from one organism to another
- 10. a) The variety of living organisms in an ecosystem
- 11. b) Grasshopper
- 12. b) The place where an organism lives
- 13. d) Producers
- 14. d) All of the above
- 15. b) Niche
- 16. b) It helps regulate the population and structure of the ecosystem
- 17. c) Photosynthesis
- 18. b) It decreases
- 19. b) Mutualism
- 20. c) Lake

