

SCIENCE EVALUATION

Topics: Biological Functions, Classification of Living Things, Plants, Photosynthesis, Digestive and Circulatory Systems

Name: _____ Grade: _____ Date: _____

Instructions: Read each question carefully. Answer all sections. Use complete sentences when requested.

Part I. Multiple Choice (10 points)

1. Which biological function allows living things to obtain and use energy?
A. Reproduction B. Nutrition C. Death D. Germination
2. Autotrophic organisms are organisms that...
A. eat only animals B. produce their own food C. eat dead matter only D. cannot use energy
3. Which organism is a producer?
A. A lion B. A mushroom C. A green plant D. A vulture
4. An animal that eats both plants and animals is a(n)...
A. herbivore B. carnivore C. omnivore D. decomposer
5. Which organisms help break down dead plants and animals?
A. Producers B. Decomposers C. Herbivores D. Autotrophs
6. What is the main function of roots?
A. Make flowers colorful B. Absorb water and minerals and anchor the plant C. Capture sunlight D. Produce seeds only
7. Which green pigment captures sunlight for photosynthesis?
A. Chlorophyll B. Glucose C. Oxygen D. Starch
8. Photosynthesis takes place in organelles called...
A. roots B. blood cells C. chloroplasts D. platelets
9. Which is one process performed by the digestive system?
A. Pumping blood B. Nutrient absorption C. Capturing sunlight D. Producing chlorophyll
10. Which part of the blood helps it clot?
A. Plasma B. Platelets C. Red blood cells D. Chlorophyll

Part II. True or False (6 points)

11. Respiration is one of the biological functions of living things. ____
12. Heterotrophic organisms produce all their own food from carbon dioxide. ____
13. Detritivores feed on dead organic matter. ____
14. The root cap protects the tip of a root. ____
15. Chlorophyll is a green pigment. ____
16. The heart pumps blood around the body. ____

Part III. Matching (6 points)

Write the correct letter next to each term.

17. ____ Neck
 18. ____ Growth area
 19. ____ Root hairs
 20. ____ Leaf
 21. ____ Blood plasma
 22. ____ Circulatory system
- A. The organ that specializes in photosynthesis and respiration
- B. The liquid part of blood
- C. The zone where cell division takes place
- D. The system that transports substances around the body
- E. The buffer zone between the root and stem
- F. Structures that help absorb water and minerals

Part IV. Fill in the Blanks (8 points)

23. Organisms that make their own food are called _____.
24. Organisms that depend on other organisms for food are called _____.
25. The green pigment in plants is _____.
26. The organelle where photosynthesis occurs is the _____.
27. The three digestive processes listed in the study notes are ingestion, nutrient absorption, and _____ of waste.

28. The formula for photosynthesis is: $6\text{H}_2\text{O} + 6\text{CO}_2 + \text{light energy} \rightarrow \underline{\hspace{2cm}} + 6\text{O}_2$.

29. Animals that eat only plants are called .

30. Animals that eat other animals are called .

Part V. Short Answer (10 points)

31. Name four biological functions of living things.

32. Explain the difference between producers, consumers, and decomposers.

33. Name three parts of the root and describe the function of one of them.

34. What is photosynthesis? Include the role of sunlight and name one product.

35. Name two components of blood and give one function or description of each.

Part VI. Apply Your Knowledge (5 points)

36. A rabbit eats grass, and a fox eats the rabbit. Identify the producer and the two consumers. What type of consumer is the rabbit? What type is the fox?

Total: 45 points

