

Exploring the World of Plants and Nature

Plants & Nature · Answer Key · 20 Questions

1. Which of the following is the process by which plants convert light energy into chemical energy?

- A) Respiration
- B) Transpiration
- C) Photosynthesis**
- D) Germination

2. What is the primary function of a plant's roots?

- A) Producing flowers
- B) Absorbing water and nutrients from the soil**
- C) Capturing sunlight
- D) Releasing oxygen

3. The process of water vapor being released from plants into the atmosphere is called:

- A) Evaporation
- B) Condensation
- C) Perspiration
- D) Transpiration**

4. Which part of a plant is responsible for reproduction and often attracts pollinators?

- A) Stem
- B) Leaf
- C) Flower**
- D) Root

5. What are the tiny pores on the surface of leaves that allow for gas exchange called?

- A) Xylem
- B) Phloem
- C) Stomata**
- D) Chloroplasts

6. Which gas do plants primarily absorb from the atmosphere during photosynthesis?

- A) Oxygen
- B) Nitrogen
- C) Carbon Dioxide**
- D) Hydrogen

7. What is the name given to plants that complete their life cycle in a single growing season?

- A) Biennials
- B) Perennials
- C) Annuals**
- D) Evergreens

8. Which of the following is a symbiotic relationship where a fungus and an alga grow together?

- A) Mycorrhiza
- B) Lichen**
- C) Algal bloom
- D) Symbiotic bacteria

9. What is the largest type of ecosystem on Earth?

- A) Forest
- B) Desert
- C) Ocean**
- D) Grassland

10. The process by which seeds germinate and begin to grow is called:

- A) Pollination
- B) Fertilization
- C) Germination**
- D) Dispersal

11. What is the primary pigment in plants that absorbs light for photosynthesis?

- A) Carotenoid
- B) Anthocyanin
- C) Chlorophyll**
- D) Xanthophyll

12. Which biome is characterized by very low temperatures, little precipitation, and permafrost?

- A) Savanna
- B) Tundra**
- C) Taiga
- D) Rainforest

13. What is the name of the tough, rigid outer layer of plant cells that provides support?

- A) Cell membrane
- B) Cytoplasm
- C) Cell wall**
- D) Nucleus

14. Which of the following is an example of a producer in an ecosystem?

- A) Lion
- B) Deer
- C) Grass**
- D) Fungus

15. What is the term for a plant that lives for more than two years?

- A) Annual
- B) Biennial
- C) Perennial**
- D) Deciduous

16. Which part of a plant transports water and dissolved minerals from the roots to the rest of the plant?

- A) Phloem
- B) Cambium
- C) Xylem**
- D) Epidermis

17. What is the process called where plants release oxygen as a byproduct of photosynthesis?

- A) Respiration**
- B) Absorption
- C) Oxygenation
- D) Oxidation

18. Which of the following is the largest desert in the world?

- A) Sahara Desert
- B) Arabian Desert
- C) Antarctic Desert**
- D) Gobi Desert

19. What is the collective term for all the fungi in a particular area?

- A) Flora
- B) Fauna
- C) Fungi

D) Mycelium

20. What is the main function of fruits in the plant kingdom?

- A) Photosynthesis
- B) Water absorption

C) Seed dispersal

D) Nutrient storage