

Advanced Elementary Plant and Nature Knowledge

Plants & Nature · Answer Key · 25 Questions

1. Which part of a plant is responsible for making its own food through photosynthesis?

- A) Roots
- B) Stem
- C) Leaves**
- D) Flower

2. What is the primary role of a seed's cotyledon?

- A) To attract pollinators
- B) To store food for the seedling**
- C) To anchor the plant in the soil
- D) To produce chlorophyll

3. In which type of environment would you most likely find a cactus thriving with minimal water?

- A) Rainforest
- B) Desert**
- C) Tundra
- D) Grassland

4. What is the process by which plants release water vapor from their leaves?

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

5. Which of the following is a type of seed dispersal where wind carries seeds away from the parent plant?

- A) Animal dispersal
- B) Water dispersal
- C) Explosion dispersal
- D) Wind dispersal**

6. What is the main function of a plant's roots?

- A) To absorb sunlight
- B) To produce flowers
- C) To absorb water and nutrients from the soil**
- D) To release oxygen

7. Ferns reproduce using which structures, rather than seeds?

A) Spores

B) Pollen

C) Fruits

D) Nuts

8. What do earthworms do that benefits plant growth in the soil?

A) They produce toxins that kill weeds

B) They aerate the soil and break down organic matter

C) They steal nutrients from plant roots

D) They camouflage plant stems

9. Which part of a flower is typically responsible for attracting insects for pollination?

A) Petals

B) Sepals

C) Pistil

D) Stamen

10. A plant that lives for many years, like an oak tree, is classified as a:

A) Annual

B) Biennial

C) Perennial

D) Herb

11. What is the term for the hard outer layer of a seed that protects the embryo?

A) Cotyledon

B) Endosperm

C) Seed coat

D) Embryo sac

12. Which of these is a symbiotic relationship where a fungus and an alga live together, often on rocks or trees?

A) Parasitism

B) Mutualism

C) Commensalism

D) Predation

13. What is the primary gas that plants absorb from the atmosphere during photosynthesis?

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

14. Which of the following is an example of a plant adaptation for surviving in a very wet environment?

- A) Thick, waxy leaves
- B) Deep taproots
- C) Aerial roots or pneumatophores**
- D) Spines for defense

15. What is the scientific term for the study of plants?

- A) Zoology
- B) Geology
- C) Botany**
- D) Entomology

16. Which part of the plant transports water and nutrients from the roots to the leaves?

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

17. What is the purpose of fruit in a plant's life cycle?

- A) To absorb sunlight
- B) To protect the developing leaves
- C) To aid in seed dispersal**
- D) To provide energy to the roots

18. A plant that completes its life cycle in two growing seasons is called a:

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

19. What is the process by which animals eat plants?

- A) Predation
- B) Decomposition
- C) Herbivory**
- D) Photosynthesis

20. Which natural phenomenon is essential for the germination of many seeds, often breaking dormancy?

- A) Wind
- B) Rain**
- C) Sunlight
- D) Gravity

21. What is the term for a plant that grows on another plant for support, but does not harm it?

- A) Parasite
- B) Epiphyte**
- C) Symbiont
- D) Predator

22. Which gas is released by plants as a byproduct of photosynthesis?

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

23. What is the layer of plant tissue that produces new cells for growth in length?

- A) Epidermis
- B) Vascular cambium
- C) Meristem**
- D) Cortex

24. What role do decomposers like fungi and bacteria play in an ecosystem?

- A) They produce oxygen
- B) They break down dead organisms and recycle nutrients**
- C) They create new plant species
- D) They are primary producers

25. Which adaptation helps plants in sandy soils to access water that is deep underground?

- A) Broad, flat leaves
- B) Shallow, spreading root systems
- C) Deep taproots**
- D) Thorns