

Advanced Elementary Botany Quiz

Botany · Practice Test · 12 Questions

1. Which specific vascular tissue transports water and dissolved minerals upwards from the roots to the leaves?

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

2. What are the microscopic pores on the underside of plant leaves that allow carbon dioxide to enter and oxygen to exit called?

- A) Chloroplasts
- B) Stomata
- C) Tendrils
- D) Spores

3. What botanical term describes flowering plants that produce seeds enclosed within a fruit?

- A) Gymnosperms
- B) Bryophytes
- C) Angiosperms
- D) Pteridophytes

4. Which primary pigment inside plant cells absorbs light energy from the sun to drive photosynthesis?

- A) Carotene
- B) Chlorophyll
- C) Xanthophyll
- D) Anthocyanin

5. During seed germination, which part of the embryonic plant emerges first to anchor the seedling in the soil?

- A) Cotyledon
- B) Plumule
- C) Radicle
- D) Hypocotyl

6. What is the growth response called when a plant stem bends towards a light source?

- A) Gravitropism
- B) Thigmotropism
- C) Phototropism
- D) Hydrotropism

7. What collective term refers to the female reproductive organs of a flower, consisting of the stigma, style, and ovary?

- A) Stamen
- B) Pistil
- C) Anther
- D) Sepal

8. Why do carnivorous plants, such as the Venus flytrap, trap and digest insects despite performing photosynthesis?

- A) To obtain water
- B) To obtain nitrogen and other essential nutrients
- C) To protect their flowers
- D) To store extra sugars

9. Which plant group lacks vascular tissues like xylem and phloem, absorbing water directly through their cell walls?

- A) Ferns
- B) Conifers
- C) Mosses
- D) Grasses

10. Which feature is typically found in flowers that rely on the wind rather than insects for pollination?

- A) Brightly coloured petals and sweet nectar
- B) Large amounts of light, powdery pollen
- C) Heavy, sticky pollen grains
- D) Strong fragrance

11. What term describes trees that drop all of their leaves annually to conserve water and energy?

- A) Evergreen
- B) Deciduous
- C) Perennial
- D) Coniferous

12. Which type of root system consists of one main thick root growing deep into the soil, as seen in carrots?

- A) Fibrous root
- B) Taproot
- C) Adventitious root
- D) Prop root