

Leaf Structure and Photosynthesis

Biology · Answer Key · 30 Questions

1. What is the apex of a leaf?

- A) The tip of the leaf**
- B) The edge of the leaf
- C) The central vein
- D) The stalk of the leaf

2. What part of the leaf is the blade?

- A) The stalk
- B) The flat, broad part**
- C) The veins
- D) The base

3. What is the midrib?

- A) The stalk of the leaf
- B) A type of cell
- C) The central vein of the leaf**
- D) The edge of the leaf

4. What is the petiole?

- A) The tip of the leaf
- B) The stalk that attaches the leaf to the stem
- C) The veins
- D) The base of the leaf**

5. Which part of the leaf attaches it to the stem?

- A) Blade
- B) Petiole**
- C) Midrib
- D) Apex

6. What is an axillary bud?

- A) A part of the leaf blade
- B) A bud located in the axil of a leaf**
- C) The main vein of the leaf
- D) The edge of the leaf

7. What is a stipule?

- A) The stalk of the leaf
- B) A small appendage at the base of the petiole**
- C) The central vein
- D) The tip of the leaf

8. Where does photosynthesis primarily occur in the leaf?

- A) Mesophyll cells**
- B) Stomata
- C) Veins
- D) Epidermis

9. What function do stomata serve in a leaf?

- A) To absorb water
- B) To release energy
- C) To allow carbon dioxide to enter**
- D) To transport food

10. Photosynthesis is the process by which plants produce what?

- A) Water
- B) Carbon dioxide
- C) Oxygen
- D) Carbohydrates (food)**

11. What are the two main raw materials used in photosynthesis?

- A) Oxygen and sunlight
- B) Carbon dioxide and oxygen
- C) Water and oxygen
- D) Carbon dioxide and water**

12. What provides the energy for photosynthesis?

- A) Water
- B) Carbon dioxide
- C) Sunlight**
- D) Oxygen

13. What is the definition of photosynthesis?

- A) The process plants use to absorb water
- B) The process plants use to release oxygen
- C) The process plants use to convert energy, carbon dioxide, and water into carbohydrates**
- D) The process plants use to transport food

14. The text mentions 'mesophyll cells' as the site for what process?

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

15. What is the primary role of carbohydrates produced during photosynthesis for plants?

- A) To release energy
- B) To form the leaf structure
- C) To serve as food**
- D) To help absorb water

16. What allows carbon dioxide to enter the leaf?

- A) Veins
- B) Midrib
- C) Stomata**
- D) Petiole

17. The text states that stomata allow carbon dioxide to be 'disseminated' (likely meant 'disseminated' or 'delivered') into the leaf.

- A) True**
- B) False

18. What is the 'blade' in the context of a leaf?

- A) The stalk
- B) The broad, flat part of the leaf**
- C) The central vein
- D) The edge

19. What is the 'margin' of a leaf?

- A) The tip
- B) The central vein
- C) The edge of the leaf**
- D) The stalk

20. What is the 'base' of a leaf?

- A) The tip
- B) The stalk attachment point
- C) The central vein
- D) The edge**

21. What is the main function of the veins in a leaf?

- A) To absorb sunlight
- B) To transport water and nutrients**
- C) To provide structural support
- D) To release carbon dioxide

22. What is the 'stem' in relation to the leaf?

- A) The leaf stalk
- B) The main part of the leaf
- C) The part the leaf attaches to**
- D) The edge of the leaf

23. The text mentions 'plnl' and 'plab' which seem to be typos for 'plant'.

- A) True**
- B) False

24. The text mentions 'pkebspcbesik' which appears to be a typo or garbled text.

- A) True**
- B) False

25. The text mentions 'MecineGives bhe' which is unclear but might relate to a biological process or function.

- A) True**
- B) False

26. The text mentions 'Kercise bOOK. LDO pages' which likely refers to an exercise book or workbook.

- A) True**
- B) False

27. The text mentions 'Meshil cells' which is likely a typo for 'mesophyll cells'.

- A) True**
- B) False

28. The text mentions 'phatuaphesis' which is a typo for 'photosynthesis'.

- A) True**
- B) False

29. The text mentions 'Sbormabae' which is likely a typo for 'stomata'.

- A) True**
- B) False

30. The text mentions 'Curson' which is likely a typo for 'carbon'.

A) True

B) False