

Class 7 science

Ch -10 Life processes in plants Worksheet Answers

Multiple choice questions(1 mark each)

1. (c) Leaves
2. (b) Iodine solution
3. (c) Blue-black
4. (b) They do not have chlorophyll
5. (b) Carbon dioxide
6. (b) Photosynthesis
7. (a) Leaves
8. (c) Stomata
9. (b) Chlorophyll
- 10.(a) Light

Assertion–Reason (1 mark each)

- 11.(b) Both A and R are true but R is not the correct explanation of A
- 12.(a) Both A and R are true and R is the correct explanation of A
- 13.(c) A is true but R is false
- 14.(c) A is true but R is false

Case Based question (4 mark)

- 15.(a) Sunlight, water, carbon dioxide, chlorophyll
- 16.(d) Leaves
- 17.(b) Phloem
- 18.(b) Transpiration

Short answer type questions (2 mark)

19. Photosynthesis is the process through which plants synthesize food using sunlight, water, and carbon dioxide; it provides energy and is essential for growth.
20. Stomata allow exchange of gases (absorption of CO_2 and release of O_2); they also help in transpiration.
21. Minerals help in plant growth; water is needed for various life processes. Minerals are obtained from soil, water is absorbed by roots .
22. Xylem transports water and minerals from roots to leaves; phloem carries food from leaves to the rest of the plant.
23. Respiration is the process by which plants break down glucose to release energy for life activities; it is essential for growth and repair .

Long answer type question: (3 mark)

24. Water and minerals are absorbed by roots and transported upwards via xylem. This maintains hydration, supplies nutrients, and enables photosynthesis .
25. Chlorophyll is a green pigment that absorbs sunlight, enabling photosynthesis and food production in plants.
26. Plants store food produced in leaves mainly as starch; this stored food is later consumed for growth and development .
27. Photosynthesis (making food using sunlight), transpiration (loss of water vapour through leaves) – both vital for plant survival .