

Date: _____ Class: 7 Div: _____ Roll No: _____ Sub: Science
Name: _____ Worksheet: Revision Ch: 2 & 10 (PT-2)

Q1. Choose the correct option and answer the following questions:

1. **Which pair is correctly matched?**

- (a) Xylem – Food transport (b) Phloem – Water transport
(c) Chlorophyll – Photosynthesis (d) Stomata – Water absorption

2. **Which pair contains one acidic substance and one basic substance?**

- (a) Lemon juice – Soap solution (b) Vinegar – Orange juice
(c) Soap – Baking soda (d) Lemon juice – Vinegar

3. **Which of the following is common to both photosynthesis and neutralization?**

- (a) Both produce oxygen. (b) Both involve a chemical change.
(c) Both occur only in leaves. (d) Both require sunlight.

4. **Which process helps cool the plant?**

- (a) Photosynthesis (b) Germination (c) Transpiration (d) Respiration

5. **A student waters a plant with vinegar instead of water. After a few days, the plant starts wilting. Which is the best explanation?**

- (A) Vinegar makes the soil acidic and affects root function.
(B) Vinegar supplies extra nutrients.
(C) Vinegar increases photosynthesis.
(D) Vinegar improves water absorption.

6. **A plant receives enough water and carbon dioxide but is kept in complete darkness. Which raw material required for photosynthesis is missing?**

- (a) Minerals (b) Oxygen (c) Sunlight (d) Chlorophyll

7. **A student blocks the stomata of a leaf with petroleum jelly. Which process will be directly affected first?**

- (a) Seed formation (b) Gas exchange (c) Flowering (d) Fruit ripening

8. **A student places a transparent plastic bag over a leafy branch. After some time, water droplets appear inside the bag. This shows the process of**

- (a) Respiration. (b) Photosynthesis. (c) Transpiration (d) germination.

9. **9. Which pair correctly matches the observation with its scientific reason?**

Observation

Reason

- | | |
|------------------------------------|---------------------|
| (A) Soap turns turmeric red | Soap is basic |
| (B) Plant bends away from sunlight | Less photosynthesis |
| (C) Xylem transports food | Food reaches roots |
| (D) Vinegar turns red litmus blue | Vinegar is basic |

10. **A potted plant is kept inside a cupboard for a week. Which process is affected the most?**

- (a) Respiration (b) Photosynthesis (c) Germination (d) Seed dispersal

Q2. Fill in the blanks:

1. Oranges contains _____ acid.
2. Vinegar contains _____ acid.
3. Turmeric turns _____ in a basic solution
4. Red litmus turns _____ in a base.
5. Neutralisation produces _____ and _____.
6. China rose indicator turns dark pink in an _____ solution.
7. The green colour of leaves is due to _____, which helps trap sunlight.
8. The green colour of leaves is due to _____, which helps trap sunlight.
9. During a hot afternoon, plants lose excess water through the process of _____.
10. The iodine test confirms the presence of _____ in a leaf.

Q3. Answer the following in one word:

1. Which indicator is obtained from lichens?
2. Name one substance that is neither acidic nor basic.
3. What is the colour of turmeric in a basic solution?
4. Ailment caused by excessive secretion of hydrochloric acid in the stomach
5. Substances that undergo a change in their odour with acidic or basic substances.
6. Name the tissue that transports water in plants.
7. Name the tiny pores found on the leaf surface and stem.
8. Special cells found on leaves and stems of plants where photosynthesis takes place.
9. Name the tissue that transports food in plants.
10. Upward movement of sap containing water and minerals through the xylem.

Q4. Answer the following questions:

1. Write a short note on the use of turmeric as an indicator.
2. Draw a well labelled diagram of fire extinguisher
3. Explain the reaction of sodium with water.
4. Differentiate between organic and inorganic acids.
5. Write a short note on neutralisation in everyday life.
6. Define: translocation, ascent of sap and diffusion.
7. What is osmosis?
8. Write a short note vascular tissues.
9. What is photosynthesis?
10. Why should we not keep many plants in the bedroom at night?