



ANSWER KEY

A	MCQ	
1	<p>Ria kept two plants—one in sunlight and one in a dark room. After a few days, the plant in the dark room became weak. What is the MOST suitable reason?</p> <p>A. Plants need darkness to grow B. Plants cannot grow without flowers C. Plants need sunlight to make food D. Plants grow better in closed rooms .</p> <p>Correct option: C — Plants need sunlight to make food</p>	
2	<p>Priya kept a cactus plant in normal garden soil and watered it daily. After a few weeks, the cactus died. What was the MAIN reason?</p> <p>A. Cactus needs more water B. Cactus cannot grow without flowers C. Cactus grows only in snow D. Cactus needs sandy soil and very little water</p> <p>Correct option: D — Cactus needs sandy soil and very little water</p>	
3	<p>A student uses a transparent glass, a wooden block, and a book. Which one will allow light to pass through easily?</p> <p>A. Wooden block B. Transparent glass C. Book D. All three</p> <p>Correct option: C — Transparent glass</p>	
B	ASSERTION /REASON	
4	<p>Assertion (A): We cannot see objects in a completely dark room. Reason (R): Light is needed to see objects</p> <p>i) Both A and R are correct. ii) Both A and R are incorrect. iii) A is correct but R is incorrect. iv) A is incorrect but R is correct.</p> <p>Correct option: i — Both A and R are correct</p>	
5	<p>Assertion (A): Mangrove plants have breathing roots. Reason (R): These roots grow above water to take in oxygen.</p> <p>i) Both A and R are correct. ii) Both A and R are incorrect. iii) A is correct but R is incorrect. iv) A is incorrect but R is correct.</p> <p>Correct option: i — Both A and R are correct.</p>	

C ANSWER THE FOLLOWING QUESTIONS

- 6** A boy saw that a pencil looks bent when kept in water.
Question: What does this observation tell us about light?

**The pencil looks bent in water because light bends (refracts) when it passes from water to air.
This observation tells us that light changes direction when it moves through different mediums.**

E ANSWER THE FOLLOWING IN 2-3 SENTENCES

- 7** Differentiate between taproot and fibrous root with example.

Taproot:

A taproot has one main thick root that grows deep into the soil, with smaller side roots.

Example: Mango, carrot.

Fibrous root:

A fibrous root has many thin roots of the same size that spread out near the surface of the soil.

Example: Grass, wheat.

F ANSWER THE FOLLOWING IN DETAIL

- 8** Your school plans to create a mini garden with herbs, shrubs, trees, climbers and creepers.
Give two examples of each to support your answer.

Herbs: Mint, Coriander

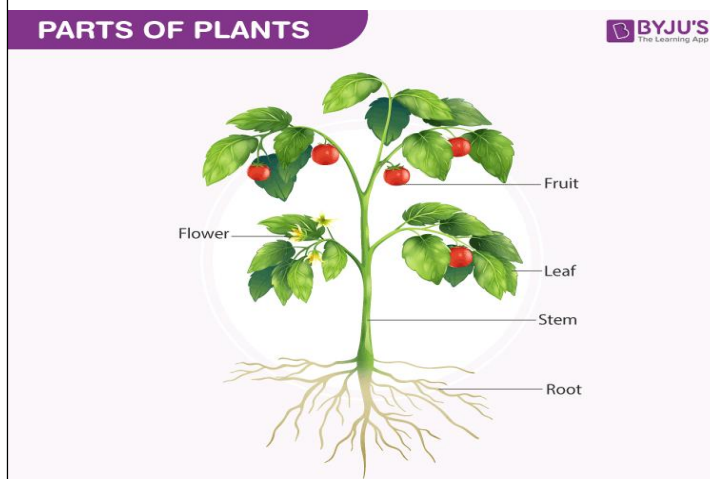
Shrubs: Rose, Hibiscus

Trees: Mango, Neem

Climbers: Money plant, Grape vine

Creepers: Pumpkin, Watermelon

- 9** Describe the functions of parts of a plant with the help of diagram.



Root: Anchors the plant and absorbs water and minerals from the soil.
Stem: Supports the plant and transports water, food, and nutrients.
Leaves: Prepare food for the plant through photosynthesis.
Flower: Helps in reproduction and forms fruits and seeds.
Fruit: Protects the seeds.
Seeds: Grow into new plants

H CASE STUDY

Plants live in different types of environments, so they develop special features to survive. This process is called adaptation. These adaptations help plants live and grow in their surroundings. During a nature field trip, Class IV students visited three different places: a desert area, a pond, and a coastal region. They observed different types of plants and their special features.

10 Why does a cactus plant have spines instead of leaves?

A cactus has spines instead of leaves to reduce water loss in the hot desert. Spines also protect the plant from animals.

11 How do broad and waxy leaves help lotus plants in water?

Broad leaves help lotus plants float on the surface of water, and the waxy coating prevents water from sticking to the leaves, allowing them to stay dry and perform photosynthesis.

12 Why are the stems of many aquatic plants hollow?

The stems of many aquatic plants are hollow because the air spaces help them float easily in water and support the plant.