

UNIT: 4 THE LIVING WORLD OF PLANTS

CLASS: VI

SUBJECT: SCIENCE

I. Choose the correct answer.

1. Pond is an example of _____ ecosystem.
a) marine **b) freshwater** c) deserts d) Mountain
2. The important function of stomata is
a) conduction b) transpiration **c) photosynthesis** d) absorption
3. Organ of absorption is _____
a) root b) stem c) leaf d) flower
4. The habitat of water hyacinth is
a) aquatic b) terrestrial c) desert d) mountain

II. Fill in the blanks.

1. Earth's surface is covered by More than 70% of water.
2. The driest places on the Earth are Desert's.
3. Fixation and absorption are the main functions of Root.
4. Primary organs of photosynthesis are Leaves.
5. Taproot system is present in Dicotyledonous plants.

III. State True or False. If false, correct the statement.

1. Plants can live without water. False
2. All plants have chlorophyll. True
3. Plants have three parts: the root, the stem and leaves. False
4. Mountain is an example for freshwater habitat. False
5. Root is modified into spines. False
6. Green plants need sunlight. True

IV. Match the following.

- | | | |
|-------------------|---|-----------|
| 1. Mountain | - | Himalayas |
| 2. Desert | - | Dry place |
| 3. Stem | - | Branches |
| 4. Photosynthesis | - | Leaves |
| 5. Fibrous root | - | Monocot. |

V. Arrange the following in correct sequence.

1. Leaf – Stem – Root – Flower

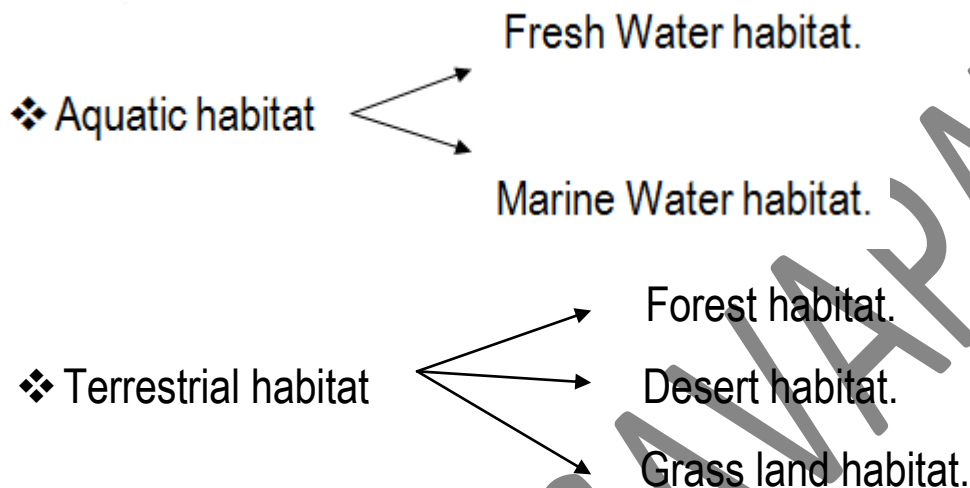
Root – Stem – Leaf – Flower.

2. Transpiration – Conduction - Absorption – Fixation

Fixation – Absorption – Conduction – Transpiration.

VI. Answer very briefly.

1. Classify the plants on the basis of their habitats.



2. Identify the desert plant from the following – Cactus, Hydrilla, Mango, and Rose.

Cactus plants - grow in deserts and able to store water in their stem.

3. Define the term habitat.

Each and every organism needs a place to live and reproduce.

Such a dwelling place is called habitat.

4. Relate the terms leaves and photosynthesis.

The green colour of the leaf is due to the presence of green coloured pigment called **Chlorophyll**.

VII. Answer briefly.

1. Why do we call jasmine plant, a twiner?

- ❖ Jasmine plant has weak stem.
- ❖ It cannot stand straight on its own .
- ❖ It must climb on any support to survive.
- ❖ So jasmine plant is called as twiner.

2. Compare the taproot and fibrous root systems.

Tap root systems:

It consists of a single root, called taproot, which grows straight down into the ground. Ex: Bean, Mango, Neem

Fibrous root systems:

It consists of a cluster of roots arising from the base of the stem. They are thin and uniform in size. Ex: Grass, Paddy, Maize, Functions of the root.

3. Distinguish between terrestrial and aquatic habitats.

Terrestrial Habitats:

- ❖ They are found on land.
- ❖ They include desert, grassland, forest, farms, towns and cities.
- ❖ They are classified into 3 types, such as desert habitat, grassland habitat & forest habitat.
- ❖ **Ex: Rubber tree, Tree, Teak tree, Neem tree.**

Aquatic Habitats:

- ❖ They are found in water.
- ❖ They include the areas, permanently as well as occasionally covered by water.
- ❖ They are classified into 2 types, such as fresh water habitat & marine water habitat.
- ❖ **Ex: Lily lotus, marine, algae, sea grasses.**

4. List out the plants present in your school garden.

- ❖ Shoe flower,
- ❖ Ferns,
- ❖ Crotons,
- ❖ Roses,
- ❖ Lilies,
- ❖ Coconut Trees,
- ❖ Royal palm,
- ❖ Clitoria,
- ❖ Cycas,
- ❖ Agave,
- ❖ Allamanda,
- ❖ Tomato,
- ❖ Brinjal,
- ❖ Lady's finger, etc in Terrace garden.

VIII. Answer in detail.

1. Make a list of the functions of root and stem.

Functions of root:

- Fixes the plant to soil.
- Absorbs water and minerals from the soil.
- Stores food in some plants like carrot and beet root.

Functions of stem:

- Supports the branches, leaves, flowers, and fruits.
- Transports water and minerals from roots to upper aerial plant parts.
- Transports the prepared food from leaves to other parts.
- Stores food as in the case of sugarcane.

2. Study the given concept map. Connect them correcting by drawing arrow marks. Complete the map by filling the blanks.

