

Science.

Chapter: 2

Adaptations - How plants survive.

Exercises.

A.

Q, Oral Questions

1. Why do you think only mangrove plants can grow in marshy areas?

Ans Only mangrove plants can grow in marshy areas because they have breathing roots.

Q2 How does lotus remain afloat?

Ans:- Lotus has hollow and light stems that keep the leaves and the flowers afloat.

Q3 Why do some plants have thorns on their bodies?

Ans Some plants have thorns on their bodies to protect them from animals.

B. Science Quiz.

1. Name a desert plant.

Ans. Cactus.

2. Where can pine and fir tree grow well?

Ans. In mountain regions.

3. Name a plant in which stem prepares and stores food.

Ans. Cactus.

A. Worksheet.

Multiple Choice Questions.

1. Babool and keekar are desert plants.

(a) mountain (b) Marshy (c) desert.

2. Among the following, the underwater plant is tape grass.

(a) tape grass. (b) waterhyacinth
(c) lotus.

B Circle the odd ones. Give reason for your choice.

1. pine pistia lotus.

Ans. Pine : - Others are aquatic plants whereas it is found in mountain region.

2. Sundew water hyacinth pitcher plant.

Ans. Water hyacinth : - Other plants are insectivorous plants whereas it is an aquatic plant.

3. teak rubber tree water hyacinth.

Ans. Water hyacinth : - Others grow in hot and humid region whereas, it is a floating plant.

C Fill in the blanks

1. Date palms grow in the dry areas.

2. Cactus is a desert plant.

3. Waterlogged places are called marshes.

4. Water lily is a/an aquatic plant.

5. Wolffia is a floating plant.

Section - B.

A. Multiple choice Questions.

1. Underwater plants has ribbon-like leaves.

(a) ribbon-like (b) needle like (c) broad.

2. pine trees are flowerless

(a) Saprophytic (b) flowerless
(c) insectivorous

B. Very short Answers :-

1. Name a Carnivorous plant.

Ans. pitcher plant.

2. Name a Saprophytic plant.

Ans coral root.

C. Short answer Questions -

1. What is a desert?

Ans: Hot and dry places are called desert.

2. What happens when we touch a poison ivy plant?

Ans. When we touch poison ivy plant, our skin starts itching.

3. The roots of mangrove plants grow out of the soil to breathe and thus, adjust to the marshy region they grow in.

(a) Which type of soil is found in marshy places?

Ans. Marshy places have sticky and clayey soil.

(b) What values do we learn from plants that adapt to their environment?

Ans. We learn to adapt ourselves in all conditions.

4. Why do we not find mango plant on mountains?

Ans. Mango plants are not found on mountains because it is adapted to grow only in plain regions where it is neither too cold nor too hot.

5. Give two adaptations in plants that grow in mountain regions.

Ans (i) The plants that grow in mountain region have thin and needle like leaves.

(ii) The leaves have waxy coating to prevent damage from snow.

D. Long answer Questions :-

1. How does a desert plant adapt itself in desert conditions?

Ans. A desert plant adapts itself in desert in following ways

(i) Leaves are changed into spines which prevents water loss.

(ii) Stem is green and has chlorophyll. It makes food and also stores food and water.

(iii) Root spread out deep under the ground in search of water.

2. Discuss the features of plants that grow in plains.

Ans The important features of plants that grow in plain region are:-

(i) They have many branches that spread around.

(ii) Their branches have many flat thin leaves which help in evaporating excess water, keeping them cool.

(iii) Most of the trees can survive in very hot climate and mostly shed their leaves in autumn. New leaves grow again in spring.

3. What difference do you find in terrestrial and aquatic plants?

Terrestrial Plants.	aquatic plants.
1. They grow on land.	1. They grow in water.
2. They need moderate or very less water to grow.	2. They need lots of water to grow.
3. Except xerophytes leaves do not have waxy coating.	3. Leaves have waxy coating.
4. They have stomata.	4. Some plants do not have stomata.
5. They have well developed roots.	5. The roots are not well-developed.

E Think And Answer.

1. Coral root is a non-green plant, so it cannot do photosynthesis. It is also not an insectivorous plant. Then, how is it able to get food to survive?

Ans. Coral root is a saprophytic plant. It absorbs its food from remains of dead plants and animals.

2. Pinky's father is getting a big aquarium for their home. He wants some real plants to be grown inside the aquarium, so that the fishes get oxygen to breathe naturally. Which one of these should be kept inside the aquarium and why? Water hyacinth, duck weed and tape grass.

Ans. Tape grass should be kept inside the aquarium. Tape grass is a underwater plant which grows and remains under the water.