



BIOLOGY

BOOKS - ICSE

THE LEAF

Exercises Tick The Most Appropriate Answer

1. The point on the stem from where a leaf arises is a

A. stem.

B. node.

C. bark.

D. trunk.

Answer:

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2. This is the flat, thin, expanded part of the leaf, mostly green in colour.

A. node

B. lamina

C. midrib

D. leaf base

Answer:

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3. The lamina has a thickened vein along its

centre called the

A. veinlet.

B. petiole.

C. vein.

D. midrib.

Answer:

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4. The small, slightly swollen part at the end of

petiole is called

A. leaf base.

B. leaf blade.

C. vein.

D. leaf stalk.

Answer:



5. In this type of arrangement, a pair of leaves arises from the same node but opposite to each other.

A. opposite

B. alternate

C. whorled

D. none of these

Answer:

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6. In a pea plant, the leaf is modified into a thin thread-like coiled structure called

A. thorn.

B. hook.

C. spine.

D. tendril.

Answer:

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Exercises Fill In The Blanks

1. An is the angle between the petiole of	of
--	----

a leaf and the stem.

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2. In a _____ leaf, the leaf blade is clearly

divided into many distinct parts.



3. The arrangement of veins and veinlets on

the lamina of a leaf is called _____

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4. In _____ venation, veins and veinlets are

irregularly distributed over the entire lamina,

forming a network.

5. Scale leaves may be thin and dry as in

,or thick and fleshy as in___

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Exercises Match The Columns

1. Match the following columns

- 1. A leaf with a single leaf blade is a
- 2. Points on the stem from which leaves arise
- 3. The thickened vein along the centre of a leaf
- 4. The minute pores present on the lower surface of a leaf
- The short, narrow, cylindrical part of a leaf that attaches the leaf blade to the stem

- a. petiole
- b. midrib
- c. stomata
- d. simple leaf
- e. nodes

Exercises Find The Odd One Out Give Reasons

1. Reproductive part of the plant is

A. stem

B. flower

C. leaves

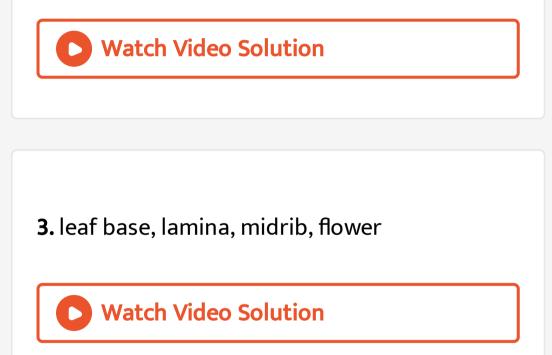
D. root

Answer:





2. leaf base, lamina, midrib, flower



4. pea plant, pitcher plant, bladderwort, Venus

flytrap

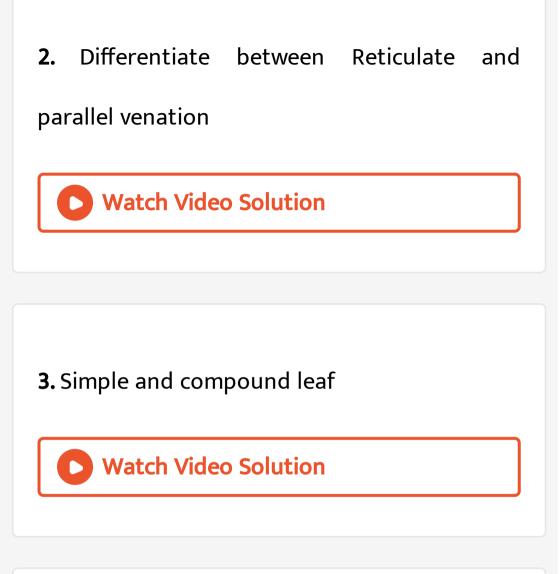
Exercises Name The Type Of Leaves Present In The Following Plants

1. Choose the correct options for the

following:-

rose	prickly poppy	mango	cotton	neem	peepal	Acacia	gulmohar
Simple leaf				Compound leaf			
1.				۱.			
2.				2.			
3.				3.			
4.				4.			



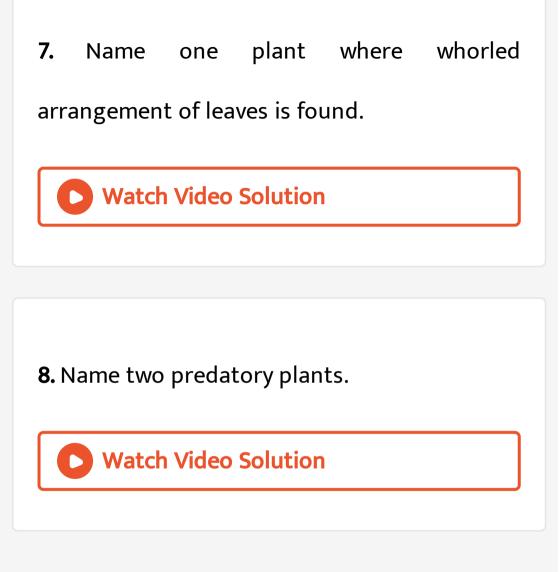


4. What is a node?

5. What is a the function of the petiole?

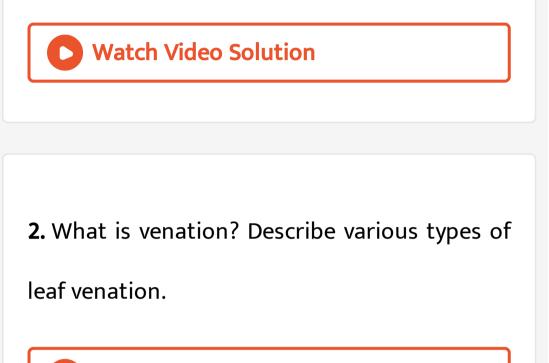
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6. Name the type of leaf present in prickly poppy.



Exercises Answer The Following In Detail

1. What are the main parts of a leaf?



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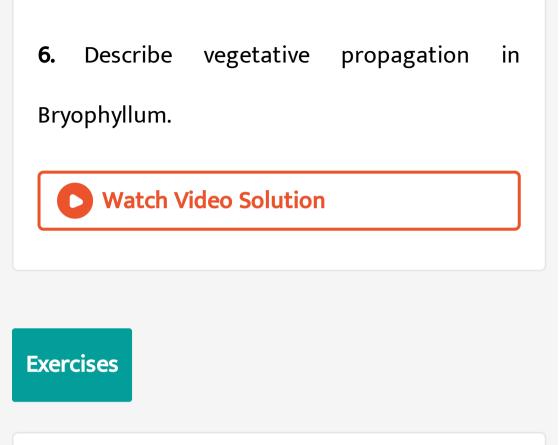
3. State main function of a leaf.

4. What is a leaf tendril? How does it help the

plant?



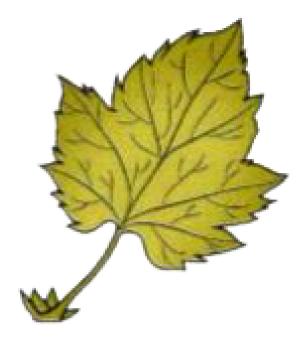
5. State the function of the leaf spines in Opuntia.



1. Copy the diagram in your notebook and label the following parts.

lamina , leaf base , veins , midrib, veinlets ,

petiole



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Check Your Progress True Or False

1. The lamina has a thickened vein along its centre called the Watch Video Solution **2.** In a leaf, the leaf blade is clearly divided into many distinct parts. Watch Video Solution

3. State true or false. In alternate arrangement, a set of three or more leaves grows from the same node.



4. State True or False.

Leaf spines help to reduce the loss of water by

transpiration.



5. State True or False.

The leaves of Opuntia are modified into spines.



Test Yourself I Multiple Choice Questions

1. Which of the following is a modified leaf?

A. Spines of cactus

B. Maize

C. Sugarcane

D. Banyan

Answer:

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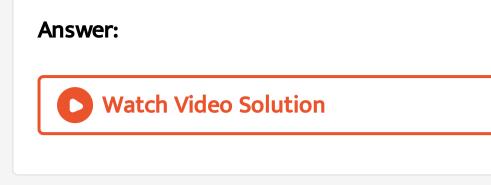
2. Veins are present in

A. Stems

B. Roots

C. Leaves

D. Seeds



3. The flat portion of leaf is called

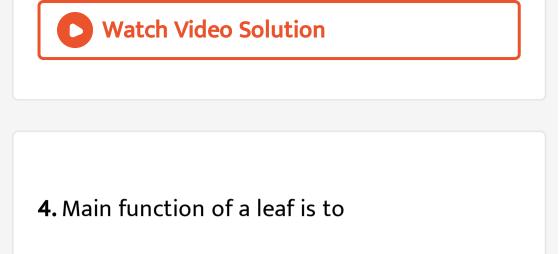
A. petiole

B. midrib

C. lamina

D. vein





- A. prepare food for the plant
- B. protect the plant
- C. anchor the plant
- D. distribute food in the plant body

Answer:

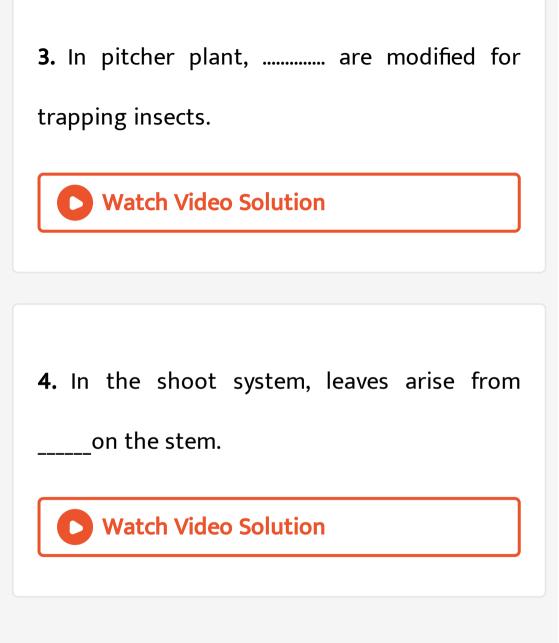


1. In cactus, leaves are modified into ____



2. Leaves are green as they contain

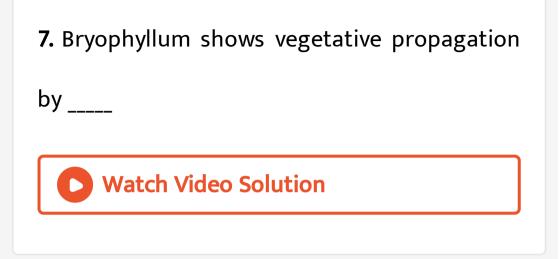




5. Plants synthesize food by the process of							
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6. Tiny pores present on the leaf surface are							

called _____

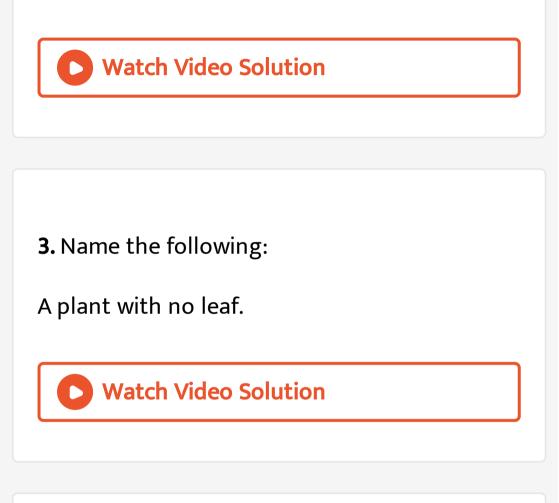




Test Yourself Iii Answer The Following Questions

1. Define (i) Leaf (ii) Venation (iii) Phyllotaxy

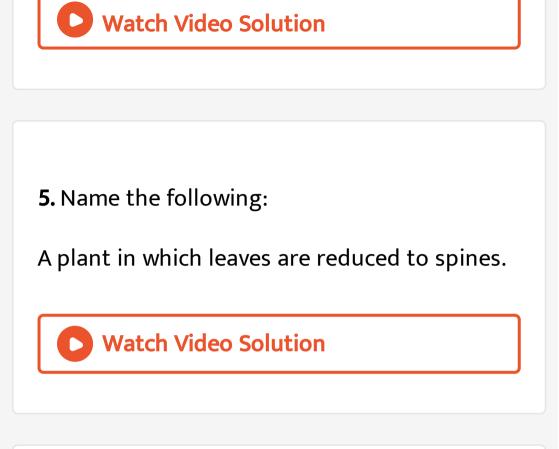
2. What imparts green colour to a leaf?



4. Name the following:

A plant with variegated leaf.

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6. Name the following:

Two plants in which leaves are modified into

tendrils.



7. Name the following:

Three plants having reticulate venation in the

leaves.



8. Name the following:

Three plants having parallel venation in the

leaves.

9. Give differences between (i) simple and compound leaves (ii) reticulate and parallel venation.



10. Write three functions of leaves.



11. What is vegetative propagation? How does

it take place in Bryophyllum?

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12. Why no seeds are produced by vegetative

propagation?

13. Why are leaves modified into spines in prickly pear?Watch Video Solution

Review Questons Multiple Choice Questions

 Identify the plant which has compound leaves :

A. Banana

B. Banyan

C. Mango

D. Rose

Answer:

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2. Which one of the following is not an insectivorous plant:

A. Pitcher plant

B. Benus flytrap

C. Bladderwort

D. Cactus

Answer:

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3. Parallel venation occurs in

A. Banana

B. Mango

C. Banya

D. Guava

Answer:



4. The point on the stem from where the leaf

arises is :

A. Petiole

B. Lamina

C. Node

D. Trunk

Answer:



5. Which one of the following is essential for

photosynthesis:

A. Carbond dioxide

B. Nitrogen

C. Oxygen

D. Soil

Answer:

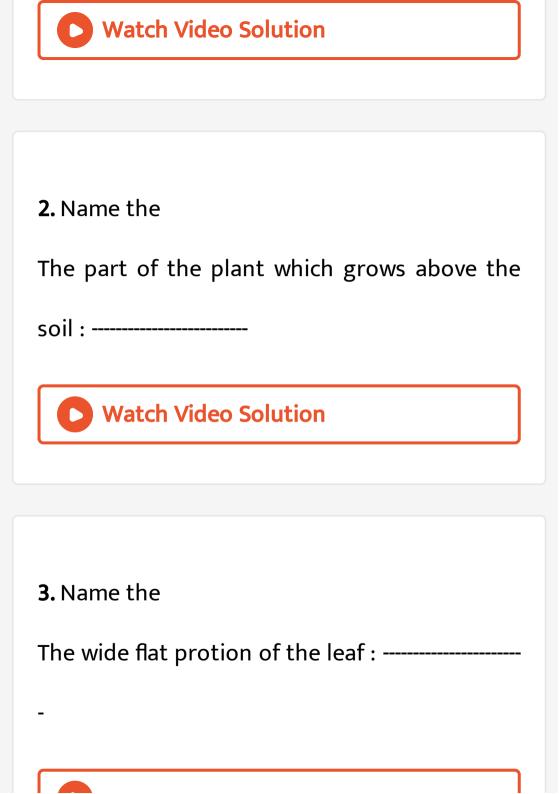


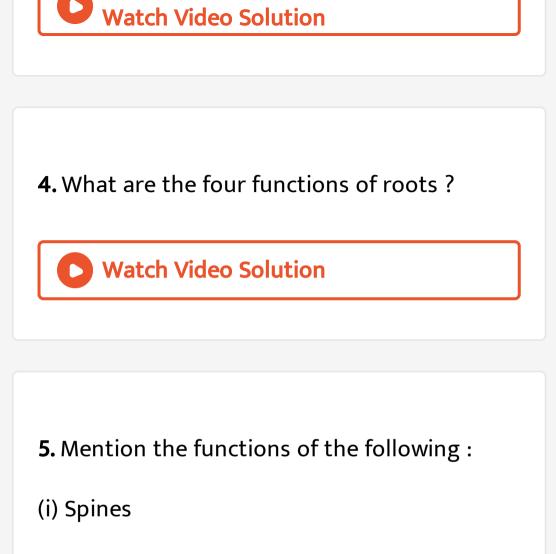
Review Questons Short Answer Questions

1. Name the

The part of the plant which grow under the

ground : -----





- (ii) Tendril
- (iii) Scale leaves



6. Define venation. What are the differennt types of venation found in the leaves ?

7. Describe the modifications of leaf in any one

isectivorous plant.



8. Write the two main functions of leaves.

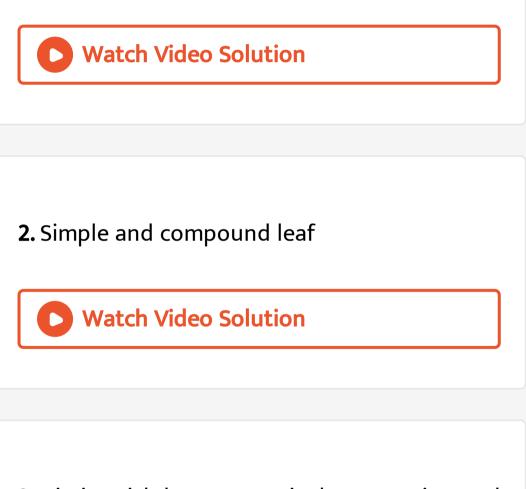


- **9.** Define :
- (i) Photosynthesis
- (iii) Transpiration

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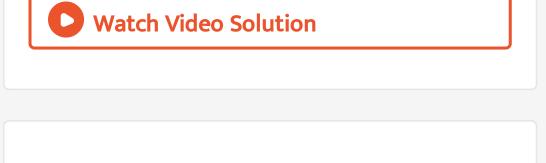
Review Questons Long Answer Questions Write The Answer In Your Notebook 1. Giving examples, differentiate between the

Tap root and fibrous root.



3. Distinguish between reticulate venation and parallel venation.

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4. What is the modification seen inBryophyllum ? Explain.

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5. What purpose is served by the spines borne

on the leaves of cactus ?

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6. Explain why leaf survival is so important to

the plant ?



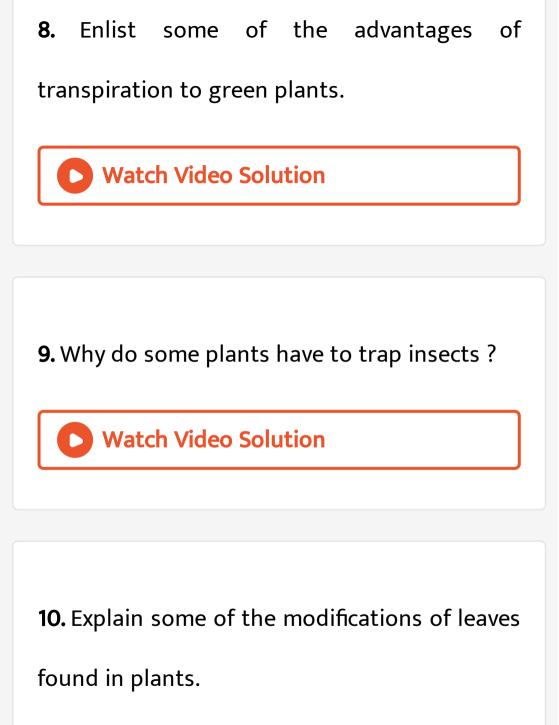
7. Give an example of the following and draw

generalized diagrams for the same :

(i) Simple leaf and compound leaf.

(ii) Parallel venation and reticulate venation.

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11. What is a leaf tendril? How does it help the

plant?



12. Complete the crossword using the clues given below.

Clues across :

1. Plant that bears buds in leaves for propagation.

- 2. The flattened green part of leaf.
- 3. Underground plant part.
- 4. Structure that develops into flower.

Clues down :

- 5. The central big vein of a leaf.
- 6. A modification seen in cactus.

