



SNBP INTERNATIONAL & SENIOR SECONDARY SCHOOL,

CHIKHALI, PUNE.

Affiliation No.1130703

ACADEMIC SESSION 2022-23

CLASS NOTES

LESSON: 6. The Plant World

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CLASS: 4

SUBJECT: Science

Q1].Key words

- | | | |
|-------------------|---------------|-----------|
| a]Pigment | e]vein | i] brahmi |
| b] microscopic | f]chlorophyll | j] pine |
| c]stomata | g] cactus | |
| d] photosynthesis | h]cedar | |

Q2. Pre activity

1] Draw the diagram of plant and label the parts.

Q3. Name the following

1] Name the process by which plants prepare their own food

Ans] Photosynthesis.

2]Name any two medicinal plants.

Ans] Tulsi and Neem

3]Name any two plants that grow in places with hot and humid climate.

Ans] Coconut and Sugar cane

4]Name any two adaptations of plants that grows in hilly regions.

Ans]Branches are sloping, Trees have cone shape.

Q3. Short answer questions

1]What is midrib? State one of its uses.

Ans] The leaf has a main vein running along its centre, dividing it into two halves. This is also called the midrib.

Functions of mid rib are:

I]It supplies water and minerals to all the parts of plant.

Ii] It also supplies the extra food to all the parts of plant

2.Explain one way in which plants are dependent on human beings.

Ans] During the process of respiration, human beings breathe in oxygen from the air and breathe out carbon dioxide. This carbon dioxide is used by plants to make food.

3. What will happen to a plant if all chlorophyll is taken out from its leaves?

Ans] A plant would not be able to make its own food if the chlorophyll is taken out from its leaves. This will make the plant wither away.

4. What are saprophytic plants?

Ans] Plants that obtain food from dead and decayed body of other organisms is called saprophytic plants.

5. What are breathing roots? Which plants have them?

Ans] The roots that grow vertically upwards to get oxygen for respiration are called breathing roots. Mangroves have breathing roots.

Q4] Long answer questions.

1] How is the Sun's energy transferred to all living beings?

Ans] Energy of the sun is captured by the plants and is transferred to other organisms through the food chain. Food chain shows the flow of energy between different organisms.

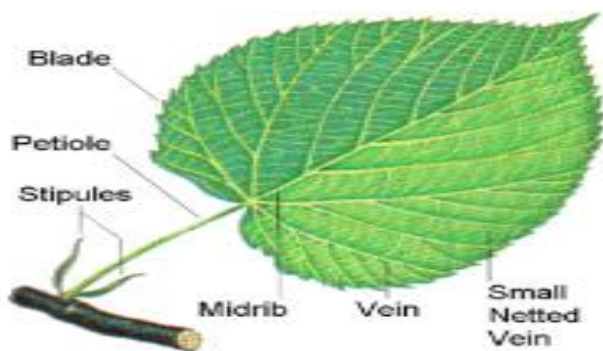
2] Name and describe the parts of a leaf with the help of a diagram.

Ans] Veins: carry food/water throughout leaf

Midrib: thick, large single vein along the midline of the leaf

Stomata: Small pores on the surface of leaf.

Blade: The green, flat surface of the leaves.



3] State the differences between floating plants and fixed plants

Floating plants	Fixed plants
Stem is spongy and has air space	Stem is light and hollow.
A water plant that floats on the surface of water is called floating plant	The water plant that is fixed in the water is called fixed plants.
The roots are loosely situated in water	The roots are fixed in water
Ex: Duck weed	Ex: Lotus

4] How are the adaptations of the cactus plant different from those of pine trees?

Ans] Pine trees are tall and their leaves are so thin (also known as needles) to minimize water loss due to transpiration. On the other hand, cactus does not have leaves. They have stems and long roots which help them to store water in hot and arid areas with water scarcity.

Q5] Hots

1] Imagine that there are no plants on Earth. Would we be able to survive? Where would we get our food from?

Ans] We wouldn't be able to survive as the oxygen-carbon dioxide balance will be disturbed.

2] If you want to grow lotus at home what conditions would you provide?

Ans] i] A sunny spot. Lotus like full sun and need at least 6 hours of light per day.

ii] A warm area. ...

iii] A large, deep pot with no holes in the bottom.

Q 6] Post Activity:

Draw the diagram of leaf and label the parts.

Subject Trs

H.O.D

CO-ordinator

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