

1

PLANTS



QUICK CONCEPT REVIEW

We see different types of plants around us. Some plants are big and some are small. Some have flowers and some have fruits. Some are in different colours and some are completely green.

Types of Plants:

Depending on their size, plants are of three types: Trees, shrubs and herbs.

Trees:

Big and tall plants are called trees. They have thick, strong and woody stem. This stem is called the **trunk**. Trees have a long life and live for many years. For example: mango, banyan, peepal and bamboo.



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Some trees like neem and peepal shed their leaves every year. They are called **deciduous trees**. Some trees like mango and banyan remain green throughout the year. They are called **evergreen trees**.

Shrubs:

Shrubs are smaller than trees. They have thick stems but they are not as thick as the stems of trees. Shrubs are also called **bushes**. They are generally low in height and only live for a few years. China Rose (hibiscus), rose, cotton and tulsi (basil) are examples of shrubs.



Herbs:

Herbs are very small plants as compared to trees and shrubs. They have green and soft stems. Coriander, mustard, spinach and mint are some example of herbs. Many herbs live for a year or only a couple of months.



Climbers:

A climber is a plant which has a weak stem. The stem coils around a support to grow straight. Money plant, bitter melon, grape and pea plant are a few examples of climbers. Climbers generally live for a few months, but some may live for years.

**Creepers:**

A creeper is a plant which grows along the ground. It has weak and thin stems. Plants like cucumber, pumpkin and watermelon are creepers.

**Thorny Plants:**

Some plants which have thorns are called thorny plants. Cactus, acacia and rose plants are all thorny plants.



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Plant Habitat:

Plants can be found both on land and in water. Different plants live in different habitats.

Plants can be classified in various categories:

a. Plants that grow on land.

1. **Plants that grow on mountains and hills:** These plants are tall, sturdy and coniferous. **Examples:** Cedar, Pine Spruce, Conifers, fir.

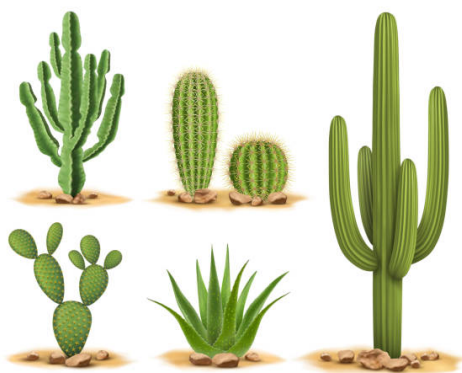


2. **Plants that grow in warm places or plains:** These plants have many leaves and are shady. Most of the trees that grow in warm places or plains shed leaves in autumn. **Examples:** Banyan, Mango, Papaya, Neem.



3. **Plants that grow in deserts or dry regions:** These plants are adapted to live in hot and dry conditions. They have thick stems and spines all over their body. They lose very little water.

Examples: Saguaro, Prickly pear, Agave, Hedgehog.



4. **Plants that grow in water:** Plants that grow in water are called **aquatic plants**. They possess specific characteristics to survive in water.

Parts of a Plant:

A plant has many parts. The following are the various parts of a plant.

Root: They grow under the ground. Roots collect water and minerals from the soil for the plant.

Stem: The stem grows above the ground. It is the main body of a plant. It transports food and water to all parts of the plant.

Leaves: They make food for the plant.

Flowers: They produce fruits.

Fruits: They have seeds in them. A baby plant grows from a seed. Plants need air, soil, water and sunlight for their growth.

Plants Give us Food:

Most of our food comes from plants. Plants make their own food. Leaves are the food factories of the plants and the food is stored in different parts of the plant.

Roots: We eat the root of plants like radish, carrot, turnip and beetroot.

Stems: We eat stems of plants like ginger, potato and sugarcane.

Leaves: Leaves of some plants are eaten as vegetables. For example: cabbage, spinach, fenugreek and mint.

Flowers: We eat flowers of plants like broccoli and cauliflower.

Seeds: We eat seeds of many plants like gram, beans, corn and peas. Food grains like cereals and pulses are also seeds of the plants.

Fruits: Fruits of some plants are eaten as vegetables.

We all enjoy eating juicy fruits like mangoes, grapes, apples and oranges.

Plants Give us Spices:

Spices add taste and flavour to the food. Plants give us spices like chillies, peppercorns, cardamon, turmeric and coriander seeds.



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Plants Give us Oil Seeds:

We get oil from plants. Seeds containing oil are called oilseeds. This oil is used for various things, including cooking food and for applying on the body.



Plants Give us Tea, Coffee, Sugar and Cocoa:

We get tea from the leaves of a tea plant.

Coffee beans from the coffee plant, are crushed to make coffee powder.

Sugarcane juice, from the sugarcane plant, is used to make sugar.

Seeds of cocoa tree are crushed to make cocoa powder.

Plants Also Give us:

Plants give us oxygen. Trees and plants make the air fresh by giving out oxygen and taking in carbon dioxide.

Plants add beauty to our surroundings.

Plants provide shelter.

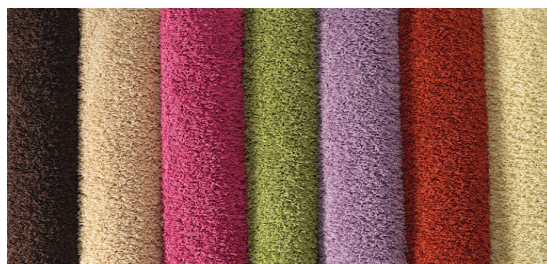
Green trees and plants are home to many animals like monkeys, squirrels, birds and insects. Plants provide fodder for animals.

Plants give fibers like cotton, jute, flax and coir from the plants. Cotton fibers are used to make cotton clothes. Jute fiber is used to make bags and ropes.

Plants give us manure. Dry leaves are mixed with soil to make manure. Plants that grow in the soil are very healthy and strong.

Other Uses:

Fibres: With fibre we make clothes, bags and ropes.



Eg:-

Cotton: Clothes.

Jute: Cloth & rope, bag.

Coconut: Bag.

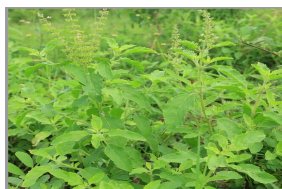
Medicines:

Some plants give us medicines

Mint: Treats stomach ache.



Tulasi (basil): Cough & cold.



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Neem: Tooth paste, soaps kills germs.



Perfumes & Dyes:

We get perfume from some flower leaves.

Flower: Jasmine, rose get perfume.



Dye: Henna leaves are powdered and used as dye to colour hair and apply design on women's hand.

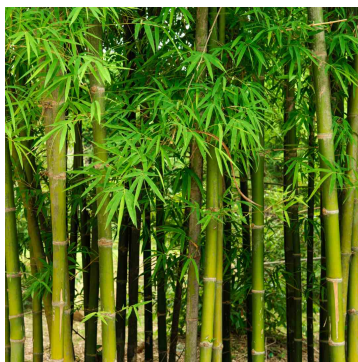
Paper, Rubber, Gum:

We make Paper from plants.

Rubber is made from the juice of the rubber trees. Rubber is used for making erasers, tyres, pipes mats. etc

Gum from plants:

Bamboo plant: paper



Rubber plant: Tyre



Gum plant: Gum



Wooden Product:

- Plant give us wood.
- We use wood for making houses, furniture, pencils, boats, boxes, bats, carts, musical instruments. Wood is also used as fuel.



Decoration:

- Plants are used as Hedges in garden and around our houses.
- Plants are also used for decorations.
- Many flowers are arranged into bouquets and given as gifts.

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Environmental Uses:

- Plants help in giving us clean air to breathe.
- Plants gives us shade.They help in keeping surrounding cool.
- Trees helps us get rains, they make place beautiful and healthy to live





LEVEL

1

1. Plants gives us clean _____ to breathe.

- A) Air B) Water
C) Medicines D) Fruit

2. _____ is used to treat cough and cold.

- A) Apple B) Tulsi
C) Jasmine D) Rose

3. We get sugar from _____ plants.

- A) Sugar cane B) Carrot
C) Radish D) Neem

4. Very small plants are called _____.

- A) Shrubs B) Climbers
C) Herbs D) Trees

5. The image represents which seeds?



- A) Sunflower seeds
B) Sesame seeds
C) Coffee seeds
D) Mustard seeds

6. Below, Which of the seed is Mustard seed.



7. I am a tall tree without branches, my fruit has water inside. I am _____.

- A) Coconut B) Orange
C) Sugar cane D) Apple


8. Coconut is used for making _____.

- A) Tea B) Bag
C) Rope D) Cloth

9. Plants gives us _____ air to breath.

- A) Dirt B) Unclean
C) Fresh D) Both (A)&(B)

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10. The _____ of a plant grow underground.
- A) Buds B) Stem
C) Seeds D) Root
11. I can for hundreds of years. I am a _____ tree.
- A) Coconut B) Orange
C) Mango D) Banyan
12. I am the king of fruits. You enjoy me in summer. I am _____.
- A) Grapes B) Orange
C) Banana D) Mango
13. We get _____ from sunflower seeds.
- A) Patrol B) Perfume
C) Oil D) Paper
14. We get oil by crushing the seed of this plant.
- A) Radish B) Potato
C) carrot D) Mustard
15. New plants grow from _____.
- A) Seeds B) Roots
C) Stems D) Buds
16. We eat the _____ of radish.
- 
- A) Stem B) Leaf
C) Bud D) None
17. We get _____ from flowers like rose and jasmine
- A) Chocolate B) Perfume
C) Soaps D) Oil
18. A shrub is smaller than a _____.
- A) Herb B) Tree
C) Shrub D) Climber
19. Tulsi leaves are used to cure _____.
- A) Wounds B) Cough
C) Burns D) Cold
20. Very small plants that have soft stems are called:
- A) Herbs B) Shrubs
C) Trees D) Climbers
21. Plant that creeps on the ground.
- A) Jackfruit B) Watermelon
C) Rose D) Pineapple
22. A tree stem is protected by an outer covering called:
- A) Branch B) Cork
C) Bark D) Trunk
23. Brinjal plant is a:
- A) Herb B) Shrub
C) Tree D) None
24. Which of these plants live for only one season ?
- A) Mango B) Guava
C) Rubber plant D) Rice

25. Cactus plants are part of which of the following plant categories?

- A) Aquatic plants
- B) Coniferous plants
- C) Deciduous plants
- D) Desert plants



LEVEL 2

26. Which of these is not a desert plant feature ?

- A) Spines
- B) No leaves
- C) Thick spongy stem
- D) Lots of flowers

27. Plants that grow on land are called:

- A) Aquatic plants
- B) Coniferous plants
- C) Terrestrial plants
- D) Xerophytes

28. Floating and fixed plants are a variety of:

- A) Aquatic plants
- B) Coniferous plants
- C) Terrestrial plants
- D) Xerophytes

29. Trees on plains do not have which of these characteristics?

- A) Autumn shedding of leaves
- B) Lots of stomata
- C) Lots of leaves
- D) Adapted to high heat and dry conditions

30. Which of these is not a thorny plant?

- A) Jackfruit
- B) Lemon
- C) Bougainvillea
- D) Prickly pear

31. Thorns of which of these plants are actually reduced leaves ?

- A) Rose
- B) Lemon
- C) Bougainvillea
- D) Prickly pear

32. Broad, waxy leaves are found in:

- A) Cactus
- B) Banyan
- C) Hibiscus
- D) Water lily



33. Which of the following plants correctly matches the given description ?

I am a small plant.

I have a number of roots growing from the base of my stem.

I am seasonal

- A) Wheat B) Carrot
C) Mango tree D) Rose

34. Karthik was confused when his father asked him which plant fibre is stuffed in his pillow. Help him name it.

- A) Jute B) Coconut
C) Wool D) Cotton

35. Ravi planted two plants in two pots. Plant A had no roots while plant B had no leaves. Which plant will die ?

- A) Plant A and B both will die because they do not have roots and leaves respectively
B) Plant A will die because roots are important to take up nutrition from soil and helps in plant growth.
C) Plant B will die because leaves are important for making food.
D) Nor plant A neither plant B will die.

36. Which of the following plant is a herb?

- A) Mango B) Mint
C) Hibiscus D) Coconut

37. Which of these is an important function of the roots of a plant?

- A) To absorb oxygen from the atmosphere
B) To absorb carbon dioxide from the atmosphere
C) To absorb water and minerals from the soil
D) All of these

38. The leaves of _____ are used as food.

- A) Onion
B) Cabbage
C) Eggs
D) Ginger

39. Which of the following statements explain about climbers?

- A) Climbers are plants with weak stems
B) They cannot stand on their own
C) They climb up on support
D) All of the above

40. Fruits develop from _____.

- A) Leaves B) Flowers
C) Seeds D) Stem

41. Which of the following part is known as the food store house of the plant?

- A) Stem B) Leaves
C) Root D) Shoot

42. Small plants with weak stems are called herbs. Which of the these is a herb?

- A) Tulsi
B) Apple
C) Gulmohar
D) Grapevine

43. Which of the following parts of a plant absorbs water from the soil?

- A) Stem
B) Root
C) Leaves
D) All of above

44. Which of the following is an aquatic plant?

- A) Bottle gourd
B) Water lily
C) Mint
D) Pumpkin

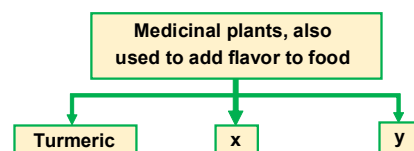
45. The rose and hibiscus plant can be placed in the same group because both of them are ____.

- A) Trees B) Shrubs
C) Herbs D) Annuals



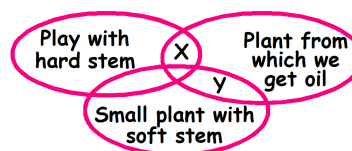
LEVEL 3

46. Study the given flowchart and select the option to correctly fill the empty space 'x' and 'y'.



- A) Mint and clove
B) Clove and Neam
C) Tulsi and Cocoa
D) Cardamon and Almond

47. Study the given figure. Which of the following best represents X and Y?



- A) X → Mustard, Y → Sunflower
B) X → Coconut → Sunflower
C) X → Sunflower, Y → Groundnut
D) X → Groundunt, Y → Mustard

48. What will happen to a plant if all its flowers are removed from it?

- A) The plant will stop making food.
B) The plant will stop transporting water to all other parts.
C) The plant will to produce any seeds or fruits.
D) The plant will eventually die

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49. What are the similarities between the plants bearing the flowers as shown?



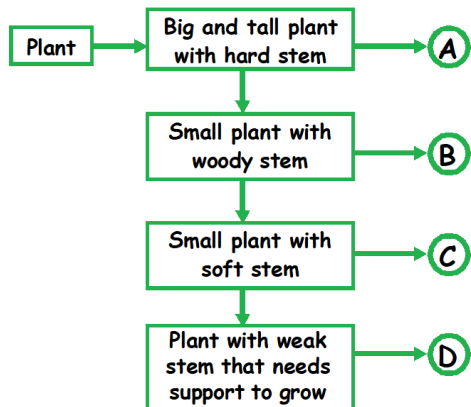
- A) They have weak stems
- B) They have hard stems
- C) They have woody stem
- D) They grow along the ground

50. Read the given features of a plant and identify it.

- A. It is a small plant with soft stem.
- B. Its leaves are used to make medicine.
- C. It is used to add flavor to food.

- A) Tulsi
- B) Hibiscus
- C) Rose
- D) Both (A)&(C)

51. Study the flow chart and choose the correct statement.



- A) A is a Rose plant
- B) B is a Hibiscus plant
- C) C is a Banyan tree
- D) D is a Shrub

52. Which of the following is NOT matched correctly?

- A) Root - Absorb water from soil
- B) Leaf - Prepares food
- C) Fruit - Protect seeds
- D) Flower - Carries food

53. Match column (I) with column (II).

Column (I)		Column (II)	
A	Roots	1.	Supports the plant
B.	Stem	2.	Reproductive of plant
C.	Leaves	3.	Absorb water from soil
D.	Flower	4.	Food production

- A) A-1, B-2, C-3, D-4
- B) A-2, B-3, C-4, D-1
- C) A-3, B-1, C-4, D-2
- D) A-2, B-1, C-3, D-4

54. Consider the following statements and choose the correct option.
 Statement 1: Trees have stronger stem than herbs and shrubs.
 Statement 2: Cactus is an aquatic plant.

- A) Statement A is true. Statement B is false.
- B) Statement A is false. Statement B is true.
- C) Both the Statements are true.
- D) None of these

55. Which of the following option will replace 'X' and 'Y' in the table.

Plants (aquatic)	Lily	'X'
Desert plant	Cactus	Opuntia
Herb	'Y'	Coriander

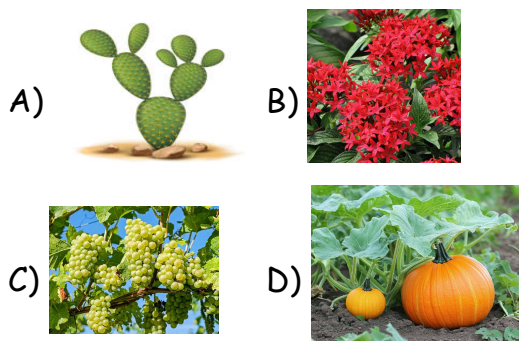
- A) X = Lotus, Y = Banyan
- B) X = Rose, Y = Mint
- C) X = Lotus, Y = Mint
- D) X = Opuntia, Y = Cotton

56. What could be the reason for the poor growth of the plant in pot C?



- A) It was not given water regularly.
- B) It is filled with cement.
- C) It was placed in dark.
- D) Both (a) and (c) .

57. Which is the odd plant among the following



58. Raghu is classifying some vegetables according to the part of the plant that we eat. He has done a mistake. Which vegetables is wrongly classified?

Vegetable	Part of the plant
Carrot	Stem
Cabbage	Leaves
Potato	Flower
Cauliflower	Flower
Beetroot	Root
Onion	Leaves
Brinjal	Fruit

- A) Brinjal
- B) Onion and potato
- C) Cabbage
- D) Carrot

59. What are the similarities between the two plants given below:



- A) They both have thick, woody stems
- B) They are creepers
- C) They are herbs
- D) They have weak, soft stems

60. Which of the following is important for a plant.

