BIOLOGY

BOOKS - SRS PUBLICATION

KNOWING ABOUT PLANTS

Question Bank

1. Tap root system is present in _____ plants.

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2. The bud at the tip of the stem is known as _____.

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3. Part of the leaf that helps in exchange of gases is _____.

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4. Primary organs of photosynthesis are _____.

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5. The important function of stomata is

A. a. Conduction

B. b. Transpiration

C. c. Photosynthesis

D. d. Absorption

Answer: B

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6. Part of plant that helps in absorption of water and minerals

A. a. Root

B. b. Stem

C. c. Leaf

D. d. Flower

Answer: A

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7. Part of the stem from where leaves arise is called_____

A. A. Node

B. B. Bud

C. C. Cotyledon

D. D. Internodes

Answer: A

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8. What are the important parts of a plant?

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9. How does the stem help the plant?

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10. What is the relation between the type of root system and venation?

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11. Rajani said " Respiration takes place in leaves" is she correct? How can support this statement?

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12. What will happen if a plant doesn't have any leaves?

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13. How can you show the plants absorb through their roots?

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14. Explain the various parts of a plant with the help of a diagram.

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15. Explain the parts of a leaf with the help of a diagram.

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16. John has no place in his house but he wants to plant vegetables like tomato in his house. Suggest him different ways to do so.

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17. Collect any plant from your surroundings. Draw its root structures. What can you say about its root system?

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18. Prepare a greeting card with dry leaves.

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19. Observe a plant which has healthy green leaves and beautiful flowers. Write your feelings about the plant in your notebook.

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20. Are all plants you see similar?

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21. What are the similarities among plants ?

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22. Observe the given picture of a leaf and its parts where is the leaf attached to the stem?

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23. What is the flat portion of the leaf called?

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24. What do you call the small line like structure in the flat portion of the leaf?

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25. Which part connects leaf lamina with stem?

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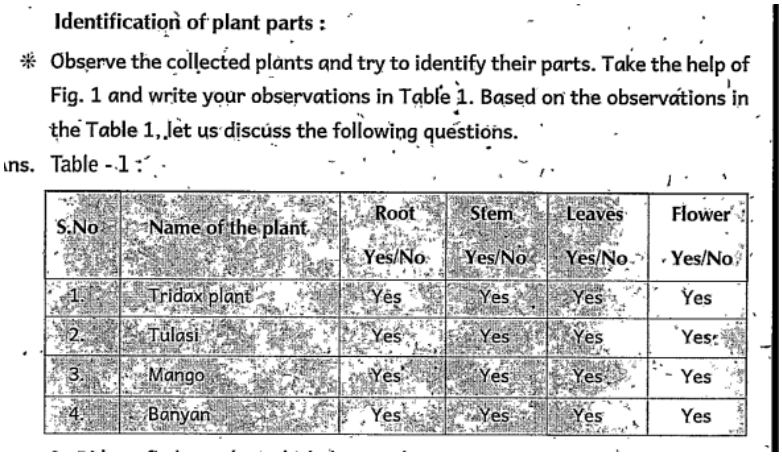
26.



Identification of plant parts :

❋ Observe the collected plants and try to identify their parts. Take the help of Fig. 1 and write your observations in Table 1. Based on the observations in the Table 1, let us discuss the following questions.

ıns. Table - 1 :

S.No	Name of the plant	Root Yes/No	Stem Yes/No	Leaves Yes/No	Flower Yes/No
1.	Tridax plant	Yes	Yes	Yes	Yes
2.	Tulasi	Yes	Yes	Yes	Yes
3.	Mango	Yes	Yes	Yes	Yes
4.	Banyan	Yes	Yes	Yes	Yes

Did you find any plant which does not have roots.

Watch Video Solution

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27.

Are the leaves of all the plants similar in size.

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28.

is there any plant that live without water?

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29.

What are the common parts that you observe in all plant?

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4.	Banyan	Yes	Yes	Yes	Yes

30.

Observe the roots of plants you collected how are they?

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31.

Do all plants have similar types of roots?

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32.

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Q. Did you find any plant which does not have roots?

Is there any difference?

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33.

in the tap root system, how does the middle root look like?

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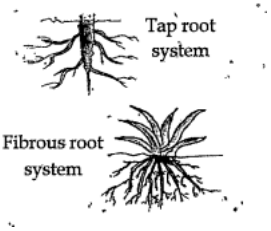
34.

* Compare the roots of your sample plants with pictures provided. Write either tap root or fibrous root, in the column 'Type of root system', according to your observations.

ıns. Table - 2 :

S.No	Name of the plant	Type of root system
1.	Tridax plant	Tap root system
2.	Tulasi	Tap root system
3.	Mango	Tap root system
4.	Banyan	Fibrous root system
5.	Marigold	Tap root system



Compare this middle root with the remaining roots in the tap root system.

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35.

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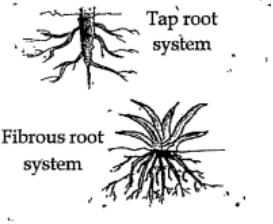

Do you find any such main root in fibrous root system? How are the roots of this plant?

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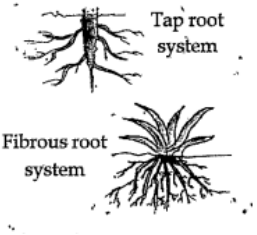

Do you find any other differences between tap root system and fibrous root system?

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37. Take two paper cups.Fill them with fertile soil.sow two or three bean seeds in a cup and few finger millets in another cup.Sprinkle

water over them.then place them by the window.After a couple of days you will see them sprout observe the newly emerging leaves.

How many leaves have emerged from the bean seed?

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water over them.then place them by the window.After a couple of days you will see them sprout observe the newly emerging leaves.

How many leaves have emerged from the finger millet seed?

Watch Video Solution

39. Take two paper cups.Fill them with fertile soil.sow two or three bean seeds in a cup and few finger millets in another cup.Sprinkle

water over them.then place them by the window.After a couple of days you will see them sprout observe the newly emerging leaves.

What kind of root system do you find in the bean plant?

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water over them.then place them by the window.After a couple of days you will see them sprout observe the newly emerging leaves. What kind of root system do you find in the millet plant?

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41. Conduct an experiment to prove that absorption of water by root:

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42. Conduct an experiment to prove the conduction of water by stem.

Watch Video Solution

43. The leaf lamina usually consists of a midrib veins and veinlets arranged in the form of a network.to understand this venation let us do an activity.put a leaf under a white sheet of paper or a sheet In your notebook.hold the tip of a pencil flat and rub it on the paper

Did you get any impression?

Watch Video Solution

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Is this pattern similar to that on the leaf?

Watch Video Solution

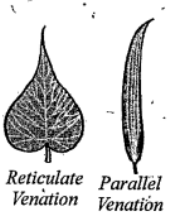
45.

Types of Venation :

* Observe the venation of the leaves that you collected in activity 1. If this design is net – like on both sides of midrib, the venation is reticulate. If the veins are parallel to one other, the venation is parallel venation. Record your observations in table 4.

Ans. Table - 4 :

S.No	Name of the plant	Venation (Reticulate / Parallel)
1.	Tridax	Reticulate
2.	Tulasi	Reticulate
3.	Mango	Reticulate
4.	Banyan	Parallel
5.	Rose	Reticulate



Reticulate Venation

Parallel Venation

What types of roots are there in plants having parallel venation in their leaves?

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Types of Venation

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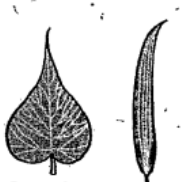

Reticulate Venation *Parallel Venation*

* Now compare the results obtained in table 2 with table 4.

46. what type of roots are there in plants having web like venation in their leaves?

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Types of Venation

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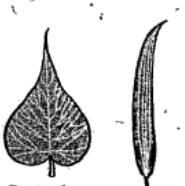

Reticulate Venation *Parallel Venation*

47. * Now compare the results obtained in table 2 with table 4.

Is there any relation between venation and root system?

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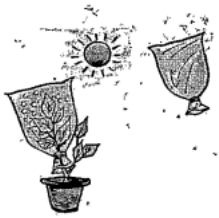
Activity - 9

❋ Do you know that excess water is removed in the form of vapours from the leaf surface. To understand this let us do the following activity. Choose a bright, summer day to do the activity. Select a well watered plant that has been growing in the sun. Enclose a leafy branch of the plant in a polythene bag and tie up its mouth. Take another polythene bag of same size and tie up its mouth without keeping any plant. Keep both the polythene bags in the sun. After a few hours observe the inner surface of the bags.



Transpiration

48. Are there any droplets of water in any of the bags..

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49.

Activity - 9

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Transpiration

How do you think they are formed there?

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50. Define root. Mention the types of root systems. Explain how root is modified to perform different functions.

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51. What are the function of a root?

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52. What is stomata ? What is its function?

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53. What is venation?Mention the types of venation found in leaves.

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54. What is the role of a flower In a plant?

 Watch Video Solution

55. What is transpiration?

 Watch Video Solution

56. How do you identify the stem and root of a plant?

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57. Write about stem modification?

Watch Video Solution

58. Define tuberous roots.Give some examples of tuberous roots.

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59. What are aerial roots?give examples.

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60. What are nodes and internodes?

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61. Define terminal bud and axillary bud.

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62. If you observe a plant without leaves.What questions arise In your mind?

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63. Pluck a plant with its roots.Ask your friend a few question regarding the plant

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64. Explain with an activity to observe conduction of water by stem.

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65. What activity do you do explain transpiration in plants?

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66. Collect the leaves of various plants.Write a brief report on their shape size and venation.

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67. Read the following passage and answer the following questions.

Pottikkalu is a traditional food of Konaseema of godavari districts.Leaves of jackfruit tree are used in its preparation.They make cups with these leaves and fill them with batter made of

black gram and rice rava.These cups are stream to get pottikkalu .They can be taken with any chutney like that of idly.They are healthy and delicious with jack fruit and flavour.

What is the name of the traditional food discussed in the above paragraph?

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Which region 's traditional food is pottikkalu?

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Which leaves are used in the preparation?

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flavour.

What is the method of preparation used?

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Which food item method of preparation is mostly same as that of pottikkalu?

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72. Draw the diagrams of tap root system and fibrous root system of plants.

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73. Observe the two given leaves and answer the following question.

What is the type of venation in fig(a)

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74. Observe the two given leaves and answer the following question.

What is the type of venation in fig(b)

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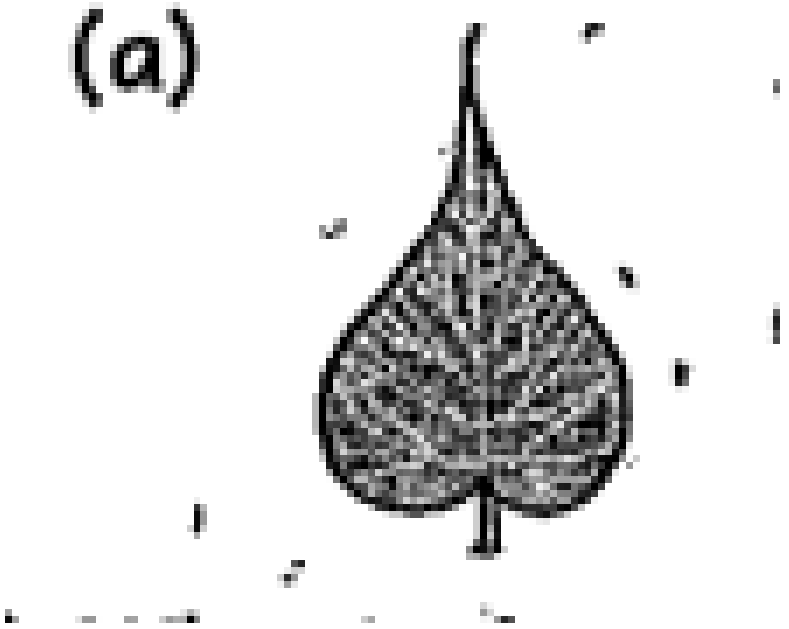
75. Observe the two given leaves and answer the following question.

What is the type of root system observed in the plant with leaf in fig (a).



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76. Observe the two given leaves and answer the following question.

What is the type of root system observed in the plant with leaf in fig (b)

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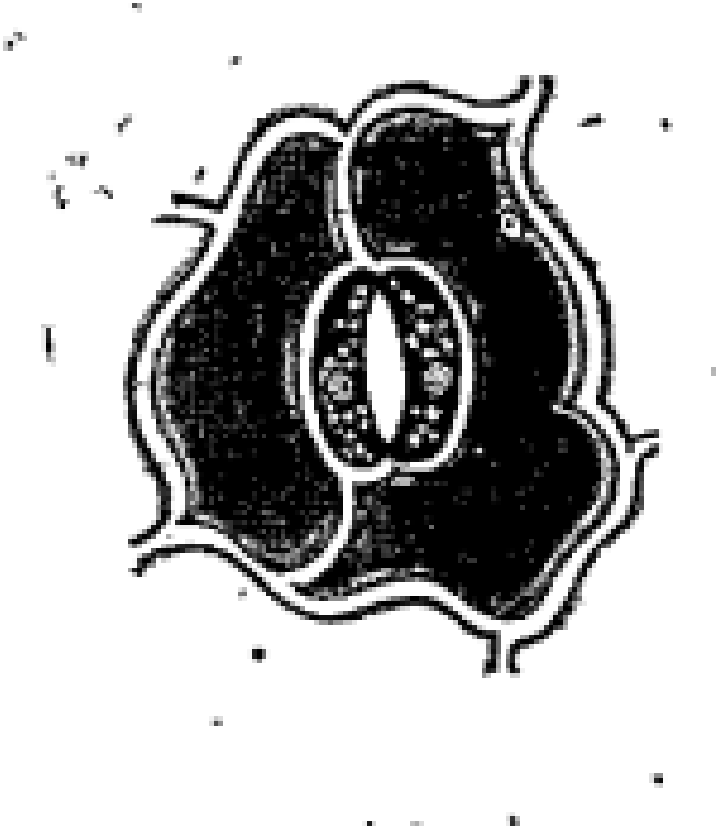
77. Observe the figure and answer the given question



What shape does it looks like?

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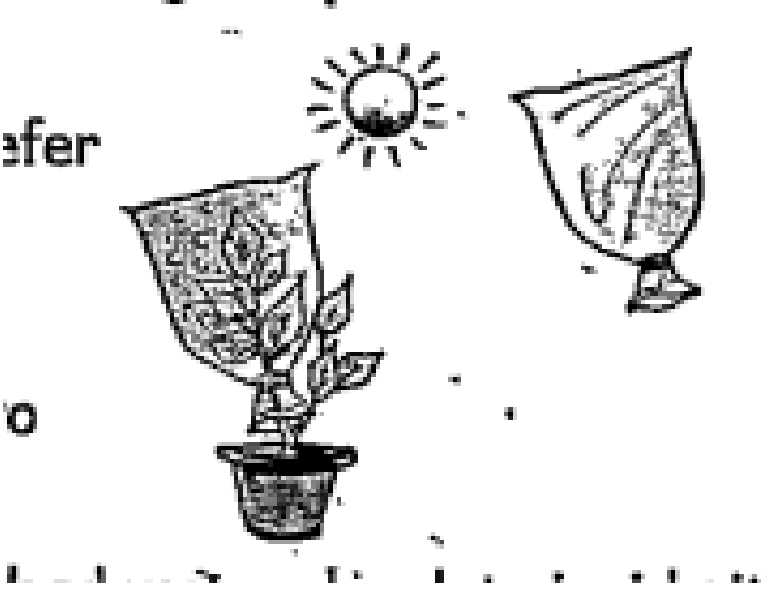
78. Observe the figure and answer the given question

What is the function of stomata?

View Text Solution

79. Observe the figure and answer the given question



What is the name of process you observe in the given picture?

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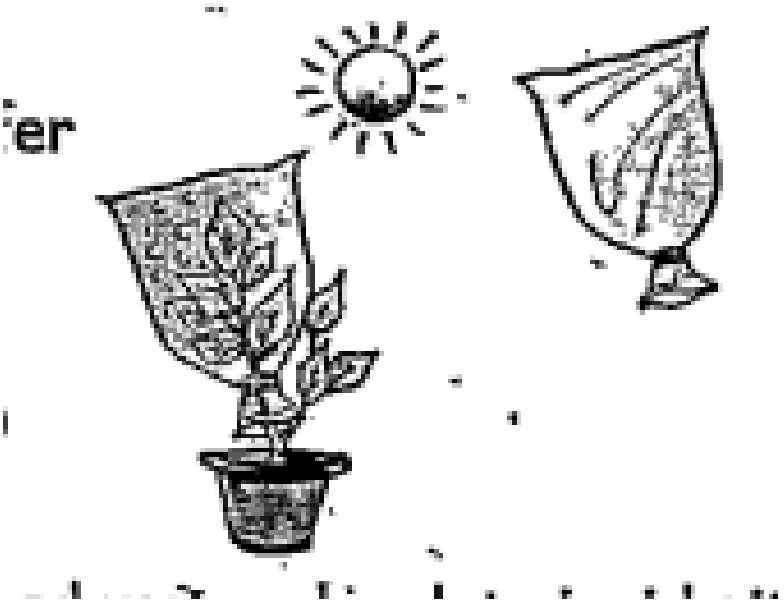
80. Observe the figure and answer the given question

By observing the picture on which day you prefer to do this activity?

View Text Solution

81. Observe the figure and answer the given question



What difference do you notice between the two polythene bags?

Watch Video Solution

82. Observe the figure and answer the given question

Define the process you observe in the picture?

View Text Solution

83. If the leaves have reticulate venation what would be the type of root?

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84. Your teacher suggested not to harm other plants when you collect plants for

observation.Why did she suggest so?

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85. Choose the plant that stores foods in its roots

A. a. Potato

B. b. Carrot

C. c. Beetroot

D. d. Both B and C

Answer: D

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86. The release of excess water from the plant in the form of water vapour is called

A. A. Photosynthesis

B. B. transpiration

C. C. Both a and b

D. D. Excretion

Answer: B

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87. Which part connects leaf lamina with stem?

A. A. petiole

B. B. node

C. C. vein

D. midrib

Answer: A

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88. _____ Acts as skeleton of the leaf:

A. guard cells

B. root system

C. venation

D. all of these

Answer: C

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89. The long vein present in the middle of the lamina is called_____

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90. Choose the plant with fibrous root.

A. Finger millet

B. bean

C. both a and b

D. tomato

Answer: A

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91. An example of a plant which stores food in the stem is

A. Potato

B. coconut

C. papaya

D. all of these

Answer: A

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92. These attract insects for pollination

A. Flowers

B. petals

C. vein

D. stalk

Answer: B

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93. Choose the process of preparation of food for the plant

A. Transpiration

B. respiration

C. photosynthesis

D. all of these

Answer: C

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94. In some plants ,roots grow above the ground such roots are called___

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95. _____ is the part of the stem where leaf arises

A. Node

B. internode

C. terminal bud

D. Aerial bud

Answer: A

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96. Choose aerial roots from the following

A. Banyan

B. Sugarcane

C. maize

D. all of these

Answer: D

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97. The bud at the tip of the stem is known as _____.

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98. Main axis of the shoot system is called the

A. leaf

B. flower

C. stem

D. root

Answer: C

Watch Video Solution

99. Choose the plant that stores food material in the stem

A. Potato

B. turmeric

C. ginger

D. all of these

Answer: D

 Watch Video Solution

100. Choose the dicot plant from the following

A. bean

B. finger millet

C. Both a and b

D. Potato

Answer: A

Watch Video Solution

101. Choose the monocot plant from the following

A. bean

B. finger millet

C. potato

D. Both a and c

Answer: B

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102. The first leaves emerging from the seed during germination are known as

A. veins

B. Petiole

C. cotyledons

D. roots

Answer: C

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103. _____ root system consist of a cluster of roots arising from the base of the stem

A. Lateral

B. tap

C. fibrous

D. all of these

Answer: C

 Watch Video Solution

104. The buds at the axils of the leaves are called

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105. Which of the following plant does not possess tap root?

A. neem

B. grass

C. mango

D. guava

Answer: B

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106. Choose the mismatched pair

A. sugarcane-parallel venation

B. Neem-reticulation venation

C. mango-parallel venation

D. grass-reticulation venation

Answer: C

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107. If leaves are absent in a plant what may happen?

A. Photosynthesis increases

B. Plant will die

C. Respiration increases

D. all of these

Answer: B

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108. Why do leaves have stomata?

A. To receive carbon do oxide

B. To release oxygen

C. Respiration increases

D. all of these

Answer: D

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109. In the activity of transpiration why the leafy branch is tied with polythene bag?

A. To observe photosynthesis

B. To observe the plant die

C. To observes plants release excess water

D. all of these

Answer: C

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110. In the activity water absorption by root what materials you need?

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111. In the activity conduction of water by stem which of the following material is not required?

A. Twig of balsam plant

B. Microscope

C. A glass of water

D. Red ink

Answer: B

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112. Read the paragraph and answer the following question

Some plants store food in roots.some plants like radish carrot beetroot store food materials in roots.these roots bulge out and called tuberous roots

What is the special feature in plants like radish carrot and beetroot?

A. Roots of these plants store water

B. Roots of these plants store food

C. Stems of these plants store food

D.

Answer: B

Watch Video Solution

113. Read the paragraph and answer the following question

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What are these roots called?

A. Tap

B. Fibrous

C. Tuberous

D. all of these

Answer: C

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114. Observe the table and answer the following questions

Sl.No.	Plant Name	Root system
1.	Grass	Fibrous root system
2.	Tulasi	Tap root system.
3.	Datura	Tap root system
4.	Maize	Fibrous root system
5.	Bean	Tap root system

what is the type of venation is found in datura plant?

A. parallel

B. reticulate

C. fibrous

D. vertical

Answer: A

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115. Observe the table and answer the following questions

Observe the given table and answer the following questions (31 - 35):

Sl.No.	Plant Name	Root system
1.	Grass	Fibrous root system
2.	Tulasi	Tap root system.
3.	Datura	Tap root system
4.	Maize	Fibrous root system
5.	Bean	Tap root system

Which of the plants have fibrous root system?

A. grass

B. tulasi

C. maize

D. Both A and C

Answer: D

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116. Observe the table and answer the following questions

Sl.No.	Plant Name	Root system
1.	Grass	Fibrous root system
2.	Tulasi	Tap root system.
3.	Datura	Tap root system
4.	Maize	Fibrous root system
5.	Bean	Tap root system

What is the type of venation is found in Datura plant ? ( )

Choose the dicot from the following

A. Bean

B. tulasi

C. datura

D. all of these

Answer: D

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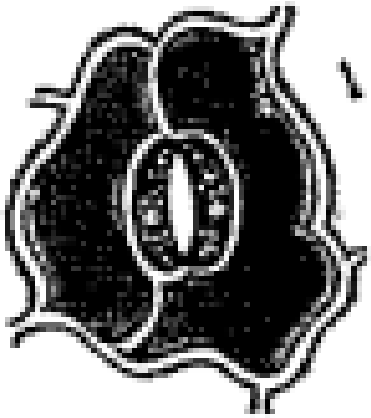
117. Identify the given diagram



A. Petiole

B. Lamina

C. Stomata

D. Midrib

Answer: C

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118. Identify the process shown in the diagram

A. Respiration

B. Photosynthesis

C. Transpiration

D. Osmosis

Answer: C

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119. Find the odd one out

A. Garlic

B. Ginger

C. Carrot

D. Potato

Answer: C

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120. Identify the type of venation

A. Reticulate venation

B. Parallel venation

C. Both a and b

D. Palmate venation

Answer: A

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121. What is the most likely to happen to a plant as a direct result of not having any leaves?

A. Food will not be synthesises

B. Water will not be absorbed from soil

C. Support will not be provided to the branches and flowers

D. There will be no major effect

Answer: A

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122. Find the odd one out

A. Leaf

B. Stigma

C. Veins

D. Leaf base

Answer: B

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123. Find the odd one out

A. Lamina

B. Petiole

C. Root

D. Midrib

Answer: C

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124. Rootlets of tap root are called

A. Horizontal

B. Longitudinal

C. Lateral

D. Fibrous

Answer: C

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125. Garlic is a modified_____

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