



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

PLANTS: PARTS AND FUNCTIONS

Exercise

1. What are the important parts of a plant?



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2. How will you tell which part of a plant is the stem and which is the root?



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3. How will you tell which part of a plant is the stem and which is the root?



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



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



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7. How does the stem help the plant?



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8. What type of venation is found in the leaves of plants with fibrous roots?





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



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



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



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



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

statement?



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



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15. Prepare a greeting card with dry leaves.



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



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17. What are the functions of roots in plants?



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18. Which plants store food in roots and stems ? Give examples..



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19. What is venation ? Describe the structure of a leaf. What is the function of venation?



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



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21. What type of roots are there in plants having web-like venation in their leaves?



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22. What type of roots are there in plants having parallel venation in their leaves?



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23. What are the functions of a leaf?



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24. By what process is food prepared for the plant?



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25. How can you say that a potato is stem although it grows under the ground ?Think it over .



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



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27. Are the leaves of all plants similar in size ?



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28. Is there any plant without flowers ?



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29. Is there any plant without flowers? What are the common parts that you observe in all

plants?



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30. Do all plants have similar type of roots ? Is there any difference ?



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



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32. Do the following actions:

Bowl an imaginary ball at an imaginary wicket.

Lie down and try to rotate your leg at the hip.

Bend your arm at the elbow and your leg at the knee.

Stretch your arms sideways chew some food

bend your arm to touch you shoulder with

your finger and try to move other body parts

as well. Record your observations in table 1



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



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34. Is there any plant without flowers? What are the common parts that you observe in all plants?



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35. Draw the diagrams showing the two types of venation of the leaves.



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36. Draw the diagram of the bean shaped parts of a leaf. (Stomata) write about it .



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37. Write a note on the diversity of plants and their adaptation.



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38. What is stomata ? What is its function?



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39. Is there any relation between venation and root system ?



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40. What'are modified stems ? Give examples.



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



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42. How is the stem of the plants that grows horizontally?



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43. This gives a shape and support to the leaf

A. stem

B. venation

C. fibrous root

D. shape of leaf

Answer:



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44. Nose of the leaf is

A. Lamina

B. Petiole

C. Stomata

D. Stem

Answer:



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45. Stomata are _____ shaped.

A. Oval

B. Round

C. Disc

D. Bean

Answer:



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46. Among the following this is modified stem

A. Turmeric

B. Carrot

C. Raddish

D. Sweet Potato

Answer:



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47. Potato is a modified

A. Root

B. Branch

C. Stem

D. All the above

Answer:



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48. Example for fibrous roots plan

A. Marigold

B. Paddy

C. Mango

D. Neem

Answer:



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49. Rootlets of tap root are called

- A. Horizontal roots
- B. Longitudinal roots
- C. Lateral roots
- D. Fibrous roots

Answer:



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

A. Petiole

B. Midrib

C. Venalets

D. Leaf Base

Answer:



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51. In which part pollination takes place ?

A. Flower

B. Stem

C. Leaf

D. Root

Answer:



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52. Where is the leaf attached to the stem ?

A. Petiole

B. Veins

C. Leaf base

D. Lamina

Answer:



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53. Transpiration occurs in the ____ part.

A. Stem

B. Leaf

C. Root

D. Petiole

Answer:



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54. Which part can attract insects?

A. root

B. leaf

C. stem

D. flower

Answer:



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55. The following root is called tuberous root.

A. Ginger

B. Onion

C. Carrot

D. Potato

Answer:



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56. ____ acts as a nose in the leaf.

A. Stomata

B. Lamina

C. Veins

D. Root

Answer:



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57. Which part can give support to fix the plant tightly in the soil?

A. Leaf

B. Stem

C. Root

D. Flower

Answer:



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58. The flat portion of the leaf is called.....

A. Lamina

B. Midrib

C. Veins

D. Petiole

Answer:



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59. To produce fruits _____ should be taken place.

A. Venation

B. Transpiration

C. Pollination

D. absorption

Answer:



60. The roots penetrate deep into soil to get

A. water

B. minerals

C. Both A & B

D. none

Answer:



61. Banana oil is made from

A. Petroleum

B. amyl alcohol

C. Kerosene

D. Diesel

Answer:



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62. Plants with fibrous roots have ___ venation.

A. Reticulate

B. Parallel

C. Both A&B

D. None

Answer:



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63. Plants with taproots have ____ venation.

A. reticulate

B. parallel

C. both A&B

D. none

Answer:



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64. Garlic is a modified

A. root

B. branch

C. stem

D. flower

Answer:



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65. In coconut plant ___ root system is present.

A. tap

B. fibrous

C. both A&B

D. none

Answer:



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66. The roots bulges out are called ____ roots.

A. tap

B. fibrous

C. tuberous

D. all of these

Answer:



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67. The money plant leaf has ___ shape.

A. round

B. triangular

C. cylindrical

D. cone

Answer:



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68. In which district traditional and mythological figures are drawn with bright colours on diried leaves.

A. Nalgonda

B. Adilabad

C. Warangal

D. Karim Nagar

Answer:



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69. Exchange of gases takes place in the

A. stomata

B. root

C. leaf

D. stem

Answer:



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70. ____ acts as a skeleton to the leaf.

A. petiole

B. Midrib

C. Lamina

D. Venation

Answer:



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71. The cotton plant leaf has ___ shape.

A. round

B. palm

C. triangular

D. cone

Answer:



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72. Carrot stores food material in its

A. roots

B. stem

C. leaf

D. flower

Answer:



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73. 96% of the raw cucumber is

A. alcohol

B. acid

C. water

D. all of these

Answer:



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74. The process of water release in the form of vapour in a plant is called

- A. Breathing
- B. Transpiration
- C. Photosynthesis
- D. All of these

Answer:



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75. The main root of a plant is known as

- A. tap root
- B. fibrous root
- C. tuber root
- D. none

Answer:



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76. The hair- like root system of a plant is called

A. tap root

B. fibrous root

C. tuber root

D. none

Answer:



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77. Parallel venation can be seen in

- A. leaves of grass
- B. leaves of Peepal tree
- C. both A & B
- D. none of these

Answer:



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78. Veins of a leaf can be seen on

A. lamina of leaf

B. petiole of leaf

C. both A & B

D. all the above

Answer:



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79. On the basis of height and other characteristics a Neem plant is classified as

A. herb

B. shrub

C. tree

D. any of these

Answer:



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80. Select the one in which the branches appear higher up on the stem.

A. Brinjal

B. Wheat

C. Mango

D. None of these

Answer:



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81. A plant has green and tender stem. The plant is most likely to belong to which category?

A. Herb

B. Shrub

C. Tree

D. Can't predict

Answer:



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82. Assertion (A) : Trees are plants which are very tall. They have a hard and thick brown

stem. Reason (R) : Lamina is thin, flat, broad, green part of leaf.

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not the correct explanation of A.

C. A is true but R is false:

D. A is false but R is true

Answer:



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83. Assertion (A) : The parts of a typical flower are sepals and petals only. Reason (R) : The parts of stamen are filament and anther.

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not the correct explanation of A.

C. A is true but R is false:

D. A is false but R is true

Answer:



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