



BIOLOGY

BOOKS - TARGET PUBLICATION

CLASSIFICATION OF PLANTS

Exercise

1. What is five kingdom system of classification?

A. Eichler

B. Robert Whittaker

C. Gregor Mendel

D. Frederick Miescher

Answer: B



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2. Choose the correct alternative

Thread like spiral chloroplast is found in

A. Riccia

B. Spirogyra

C. Chara

D. Ulva

Answer: B



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3. Choose the correct alternative

Which of the following is NOT true for bryophytes?

A. Amphibians of plant kingdom

B. Thalloid plant body

C. Heterotrophic mode of nutrition

D. Multicellular

Answer: C



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4. Lycopodium belongs to.....

A. Bryophyta

B. Thallophyta

C. Pteridophyta

D. Gymnosperms

Answer: C



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5. Choose the correct alternative

Which of the following is characteristic of pteridophytes?

A. Asexual reproduction by spore formation

B. Non - flowering plants

C. Well developed conducting system

D. All of these

Answer: D



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6. Choose the correct alternative

Identify INCORRECT statement with respect to Thuja and Pinus.

- A. They belong to phanerogams.
- B. They reproduce by sexual reproduction.
- C. They possess fruits.
- D. They have seeds which contain embryo

Answer: C



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7. Choose the correct alternative

Tetramerous or pentamerous flowers are found in

- A. Bryophytes
- B. Monocotyledons
- C. Pteridophytes
- D. Dicotyledons

Answer: D



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8. Complete the paragraph

Fill in the blanks by selecting the correct word from the bracket and complete the given paragraph.

(Funaria, Pteridophytes, heterotrophic, multicellular, spore, rod, autotrophic, Marsilea unicellular, Bryophytes, seed, ribbon) ,

_____ are also known as amphibians of plant kingdom. These plants are thalloid, and _____ and _____. They reproduce by _____ formation. The plant body of these plants is flat _____ like long, without true roots, stem

and leaves. Example of this group of plants is _____ :



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9. True or False.

Multicellular eukaryotic organisms without cell wall belong to kingdom Animalia.



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10. True or False.

Algae are autotrophic.



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11. State whether the following statements are true or false. Correct the false statements:

Bryophyta have specific tissues for conduction of food and water



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12. True or False.

Marchantia, Riccia and Anthoceros belong to division Pteridophyta.



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13. True or False.

Nephrolepis belongs to division Thallophyta.



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14. True or False.

Pteridophytes reproduce sexually by flower formation.



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15. True or False.

Thallophytes, Bryophytes and Pteridophytes have hidden reproductive organs.



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16. True or False.

Plants belonging to division thallophyta, bryophyta and pteridophyta are called phanerogams.



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17. True or False.

Angiosperms are classified as monocots and dicots depending upon the number of cotyledons in seeds.



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18. True or False.

In *Cycas*, seeds are covered within fruit.



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19. True or False.

Dicotyledonous plants have parallel venation.



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20. State whether the following statements are true or false. Correct the false statements:

Monocotyledonous plants have trimerous flowers.



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21. Odd one out

Spirogyra, Ulva, Sargassum, Riccia



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22. Odd one out

Funaria, Marsilea, Marchantia, Anthoceros



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23. Odd one out

Pinus, Pteris, Selaginella, Lycopodium



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24. Odd one out

Onion, Cycas, Picea, Thuja



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25. Odd one out

Hibiscus, Jowar, Banana, Thuja



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26. Complete the analogy

Spirogyra: Autotrophic :: Yeast: _____



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27. Complete the analogy

Angiosperms: Seeds enclosed:: _____: Seeds
naked



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28. Complete the analogy

Sargassum: Thallophyta :: Adiantum : _____



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29. Complete the analogy

Pteridophytes: _____ Cryptogams ::

Angiosperms: _____



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30. Complete the analogy

Mustard : Tap root :: Maize : _____



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31. Complete the analogy

Pea: Two cotyledons :: Rice: _____



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32. Complete the analogy

Rose: _____ :: Bamboo: Parallel venation



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33. Complete the analogy

Pinus : Roots :: Marchantia : _____



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34. Match the following

Match the proper terms from column A and C with description in Column B.

| A | B | C |
|--------------|-----------------------------------|--------------|
| Thallophyta | Seeds are formed in fruits | Fern |
| Bryophyta | No natural covering on seeds | <i>Cycas</i> |
| Pteridophyta | These plants mainly grow in water | Tamarind |

| | | |
|-------------|--|-------|
| Gymnosperms | These plants need water for reproduction | Moss |
| Angiosperms | Tissues are present for conduction of water and food | Algae |



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35. Match the following

| | Group 'A' | | Group 'B' |
|------|--------------|----|------------------|
| i. | Gymnosperms | a. | Mustard |
| ii. | Bryophyta | b. | <i>Funaria</i> |
| iii. | Angiosperms | c. | Yeast |
| iv. | Pteridophyta | d. | <i>Equisetum</i> |
| | | e. | Deodar |



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36. Who proposed five kingdom system of classification.



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37. Which criteria are used for the classification of plants? Explain with reason.



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38. Answer the following

Which type of fungi are included in division thallophyta.



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39. Answer the following questions:

Sketch , label and describe Spirogyra.



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40. Answer the following questions:

Write the characteristics of the plants belonging to the division Bryophyta.



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41. Sketch and label the figures of the following plants and explain them into brief.

Spirogyra



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42. Answer the following questions:

Sketch and label the figures of the following and explain them in brief.

Funaria



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43. Answer the following questions:

Sketch and label the figures of the following and explain them in brief.

Fern



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44. Sketch and label the figures of the following plants and explain them into brief.

Spirogyra



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45. Answer the following questions:

Write the characteristics of subkingdom phanerogams.



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46. Answer the following

Give any four examples of division:

Thallophyta



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47. Answer the following

Give any four examples of division:

Bryophyta



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48. Answer the following

Give any four examples of division:

Pteridophyta



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49. Answer the following

Give any four examples of division:

Gymnosperms



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50. Answer the following

Give any four examples of division:

Angiosperms



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51. Answer the following

Fibrous roots are present in which plants?



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52. Answer the following

How seeds of gymnosperms differ from that of angiosperms?



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53. Answer the following questions:

Write the paragraph in your own words about the ornamental plants called ferns.



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54. Given scientific reasons:

Green plants are called autotrophs.



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55. Complete the sentences and explain them:

(Angiosperms, gymnosperms, spores,
bryophyta, thallophyta, zygote)

.....Plants have soft and fiber like body.



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56. Complete the sentences and explain them:

(Angiosperms, gymnosperms, spores,
bryophyta, thallophyta, zygote)

.....is called the 'amphibian' of the plant kingdom.



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57. Complete the sentences and explain them:

(Angiosperms, gymnosperms, spores, bryophyta, thallophyta, zygote)

In pteridophytes, asexual reproduction occurs byformation and sexual reproduction occurs byformation.



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58. Complete the sentences and explain them:

(Angiosperms, gymnosperms, spores,
bryophyta, thallophyta, zygote)

Male and female flowers ofare borne on
different sporophylls of the same plant.



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59. Distinguish between the following:

Thallophyta and Bryophyta.



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60. Distinguish between:

Dicots and Monocots



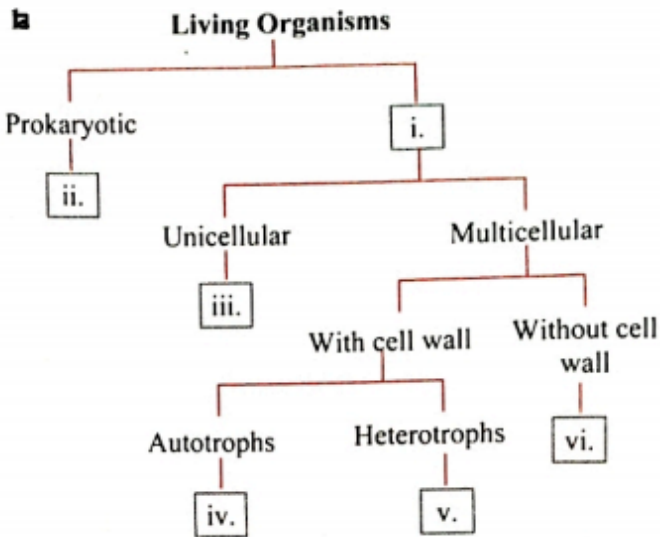
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61. Distinguish between cryptogams and phanerogams.



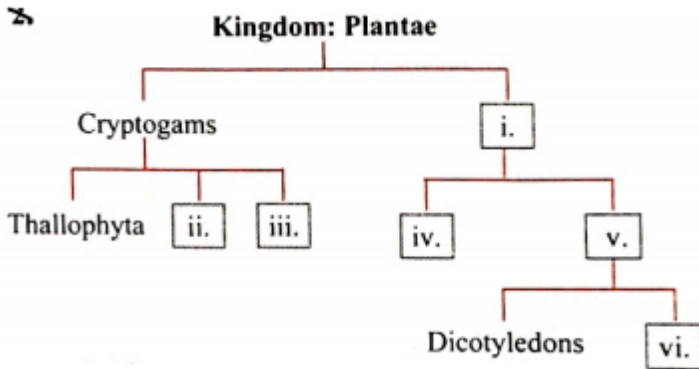
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62. Complete the given table.



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63. Complete the given table.



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64. Question based on paragraph

While playing in a garden, Rahul noticed some ornamental plants. When he observed them carefully, he found some Powdery spots on the

posterior surface of leaflets of plant. He was curious to observe the flowers or fruits of these plants, but he could not find any of these.

If Rahul considers 'the presence or absence of Organs' as a criteria to classify this plant, which are the possible divisions?



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65. Question based on paragraph

While playing in a garden, Rahul noticed some

ornamental plants. When he observed them carefully, he found some Powdery spots on the posterior surface of leaflets of plant. He was curious to observe the flowers or fruits of these plants, but he could not find any of these.

Since, Rahul could not find any fruits or flowers, in which division he should place this plant?



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66. Question based on paragraph

While playing in a garden, Rahul noticed some ornamental plants. When he observed them carefully, he found some Powdery spots on the posterior surface of leaflets of plant. He was curious to observe the flowers or fruits of these plants, but he could not find any of these.

Can you guess the plant observed by Rahul in the garden?



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67. Question based on paragraph

While playing in a garden, Rahul noticed some ornamental plants. When he observed them carefully, he found some Powdery spots on the posterior surface of leaflets of plant. He was curious to observe the flowers or fruits of these plants, but he could not find any of these.

What is the use of powdery spots Present on posterior surface of leaflets?



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68. Question based on paragraph

While playing in a garden, Rahul noticed some ornamental plants. When he observed them carefully, he found some Powdery spots on the posterior surface of leaflets of plant. He was curious to observe the flowers or fruits of these plants, but he could not find any of these.

Give two more examples of plants belonging to same division.



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69. How living organisms have been classified?



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70. Which are the special cell organelles that differentiate plant cells from animal cells?



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71. Search for a pond with greenish water. Collect some of the green fibres from the

water. Put the fibres in a petridish and wash them clean with water. Put one of the fibres in a drop of water on a glass slide and spread it out straight. Put a cover-slip over the slide and observe under a compound microscope.



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72. You may have seen a lush green soft carpet on old walls, bricks and rocks in the rainy season. Scrape it gently with a small ruler,

observe it under a magnifying lens and discuss.



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73. You may have seen ferns among the ornamental plants in a garden. Take a leaf of a fully grown fern and observe it carefully.



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74. Answer the following questions:

What is the similarity between the plants of the groups, Thallophyta, Bryophyta and Pteridophyta irrespective of differences in their body structure. (Use your brain power)



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75. Observe garden plants like Cycas, christmas tree, hibiscus, Lilly, etc. and compare them. Note the similarities and differences between

them. Which differences did you notice between gymnosperms and angiosperms?



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76. Soak the seeds of corns, beans, groundnut, tamarind, mango, wheat etc. in water for 8 to 10 hrs. After they are soaked, check each seed to see whether it divides into two equal halves or not and categorize them accordingly.



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77. Choose the correct alternative

Which among the following CANNOT be observed in Spirogyra?

A. Pyrenoid

B. Nucleus

C. Sori

D. Cell wall

Answer:



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78. Choose the correct alternative

Well developed roots, stem and leaves are a feature of

A. Funaria

B. Pteris

C. Anthoceros

D. Riccia

Answer:



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79. Choose the correct alternative

Which of the following is FALSE about Nephrolepis?

A. It possesses rhizome.

B. It reproduces only by sexual reproduction.

C. It has pinnately compound leaves.

D. It is used as an ornamental plant.

Answer:



80. Choose the correct alternative

_____ are also known as amphibians of plant kingdom.

A. Pteridophytes

B. Bryophytes

C. Phanerogams

D. Thallophytes

Answer:



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81. Answer the following

Find the odd one out from the given figures.



Funaria



Fern



Marchantia



Anthoceros

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82. Answer the following

Match the following

Following.

| Group 'A' | | Group 'B' | |
|-----------|-------------------|-----------|--------------|
| a. | <i>Lycopodium</i> | 1. | Bryophyta |
| b. | <i>Ulothrix</i> | 2. | Pteridophyta |
| | | 3. | Thallophyta |
| | | 4. | Gymnosperms |

Name the following.



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83. Answer the following

A group of non- flowering plants With well developed conducting system.



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84. Answer the following

Complete the given analogy

Sargassum: Thallophyta Riccia: _____



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85. Give the scientific reasons

Chara is an autotrophic plant



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86. State whether the following statements are true or false. Correct the false statements:

Moss (Funaria) belongs to division bryophyta



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87. Answer the following

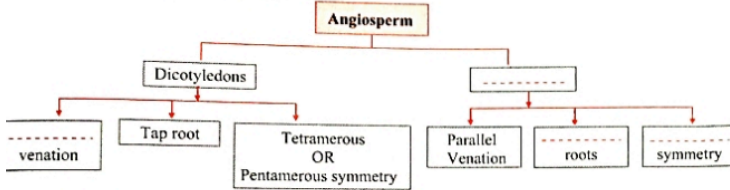
What are the cryptogams? Give two examples of it.



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88. Answer the following

Complete the given flow chart.

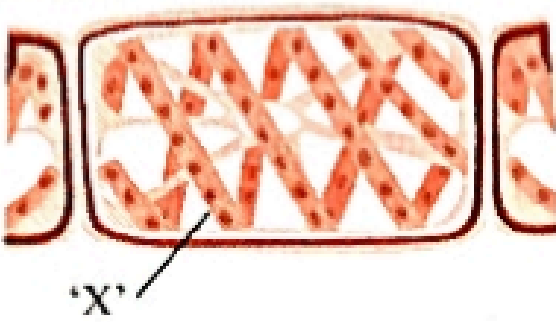


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89. Answer the following

Observe the diagram and answer the given

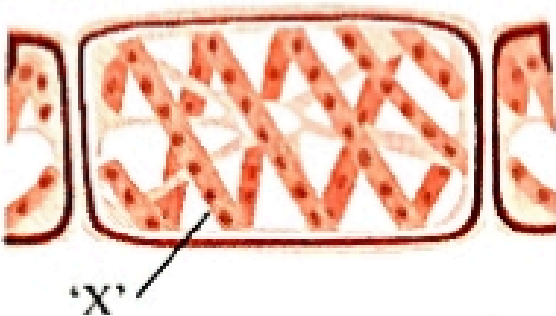
questions.



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90. Answer the following

Identify the given figure.

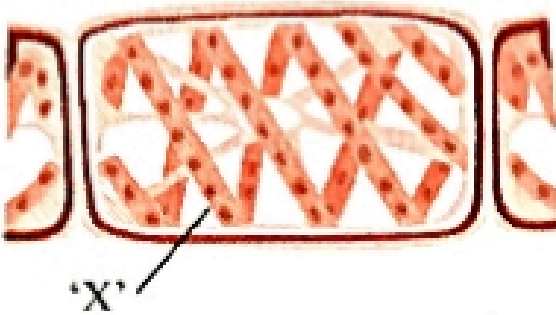




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91. Answer the following

To which division does it belong?



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92. Answer the following

Both asexual and sexual reproduction occurs in pteridophytes'. Explain



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93. Answer the following

Draw neat and labelled diagram of Marchantia and mention any two characteristics.



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94. Which criteria are used for the classification of plants? Explain with reason.



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95. Answer the following

Classify given examples of phanerogams into dicotyledans and monocotyledons.

Write the characteristics of each class.

Examples: Banana, Rice, Mustard, Coriander, Maize, Groundnut, wheat, Coconut, Tamarind, Bamboo. Coconut,



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