



# BIOLOGY

## BOOKS - SARAS PUBLICATION

### VEGETATIVE MORPHOLOGY

#### Exercise

1. Roots are

A. Descending, negatively geotropic,  
positively phototropic

B. Descending, positively geotropic,  
negatively phototropic

C. Ascending, positively geotropic,  
negatively phototropic

D. Ascending, negatively geotropic,  
positively phototropic

**Answer:**



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2. Curcuma amada, Curcuma domestica, Asparagus, Maranta are example of \_\_\_\_\_

- A. Tuberous root
- B. Beaded root
- C. Moniliform root
- D. Nodulose root

**Answer:**



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3. Bryophyllum and Dioscorea are example for

- A. Foliar bud, apical bud
- B. Foliar bud, cauline bud
- C. Cauline bud, apical bud
- D. Cauline bud, foliar bud

**Answer:**



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4. All the leaves of a plant together are referred to as

A. Phyllode

B. Phyllome

C. Phylloclade

D. Phyllotaxy

**Answer:**



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5. Ptyxis is

- A. Arrangement of leaves on the stem
- B. Arrangement of leaves in the bud
- C. Folding of lamina in bud
- D. Both B and C

**Answer:**



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6. Why lateral roots are endogenous?



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7. Write the differences between Avicennia and Trapa



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8. Compare sympodial branching with monopodial branching.



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**9. What is a leaf primordium?**



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**10. What is orthostichis?**



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**11. What is the significance of phyllotaxy?**



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**12.** How root climbers differ from stem climbers?



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**13.** Write the differences between Banyan and silk cotton



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**14.** How are aquatic plants classified based on the environmental adaptation?



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**15.** Describe corm with examples.



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**16.** Explain briefly reticulate venation.



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**17.** Comment on the buds in Dioscorea and Agave.



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**18.** Compare pinnate unicostate venation and palmate multicostate venation.



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**19.** What is the significance of phyllotaxy?



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**20.** Describe decumbent trailer with examples.



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**21.** Draw a flowchart showing the classification of leaves based on the number of segments.



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## Example

1. What does morphology mean?



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2. Differentiate between vegetative morphology & reproductive morphology.



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3. Define reproductive morphology.



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4. What are geophytes?



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5. What are Shrubs? Give examples.



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6. What are climbers? Give examples.



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7. What are terrestrial plants? Give example.



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8. What are aquatic plants? Give examples.



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9. What are annuals? Give examples.



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10. What are emergent plants? Give examples.



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11. What are floating leaved aquatic plants?

Give examples.



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**12.** When the storage roots occur in clusters from the base of the stem, they are called \_\_\_\_\_



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**13.** What are the tuberous roots? Give examples.



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**14.** What are fasciculated roots? Give examples.



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**15.** What are annulated roots? Give examples.



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**16.** Define apical meristem



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**17.** What is a leaf primordium?



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**18.** What are terminal buds?



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**19.** What is a lateral bud?



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20. What are extra axillary buds?



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21. What is an accessory bud?



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22. What are adventitious buds ? Give an example.



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**23.** What are radical buds? Give examples.



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**24.** Define foliar buds



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**25.** Define cauline buds



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**26.** What is decurrent stem?



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**27.** What do you mean by caudex ?



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**28.** Define culm.



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**29.** What are thorn climbers? Give examples.



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**30.** What are thorns?



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**31.** What is a pseudobulb ?



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**32.** What do you mean by indeterminate growth?



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