



BIOLOGY

BOOKS - VIKRAM PUBLICATION (
ANDHRA PUBLICATION)

MORPHOLOGY OF FLOWERING
PLANTS

Important Questions

1. What is meant by pulvinus leaf base? In members of which angiospermic family do you find them?



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2. Which organ is modified to trap insects in Insectivorous plants? Give two examples.



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3. Differentiate actinomorphic from zygomorphic flower.



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4. What is meant by epipetalous condition?

Give an example.



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5. What is meant by parthenocarpic fruit? How is it useful?



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6. Why certain fruits are called false fruits? Name two examples of plants having false fruits.



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7. Define mericarp. In which plant you find it?



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8. Name a plant that has single fruit developing from the entire inflorescence.

What is such a fruit called?



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9. Explain with suitable examples the different types of phyllotaxy?



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10. Describe the various types of placentations found in flowering plants.



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



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12. Explain how stem is modified variously to perform different functions.



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13. Explain different types of Racemos inflorescences.



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Very Short Answer Type Questions

1. Adventitious buds produce adventitious roots in the leaves of



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2. Define modification. Mention how root is modified in Banyan tree and mangrove plants.



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3. What types of specialized roots are found in Epiphytic plants? What is their function?



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4. How does the sucker of chrysanthemum differ from the stolon of Jasmine?



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5. What is meant by pulvinus leaf base? In members of which angiospermic family do you find them?



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6. Define venation. How do Dicots differ from Monocots with respect to venation.



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7. How is pinnately compound leaf different from palmately compound leaf?



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8. Which organ is modified to trap insects in Insectivorous plants? Give two examples.



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9. Differentiate between Racemose and Cymose inflorescences.



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10. What is the morphology of cup like structure in Cyathium? In which family it is found?



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11. What type of Inflorescence is found in fig trees? Why does the insect Balstophaga visits the Inflorescence of fig tree?



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12. Differentiate actinomorphic from zygomorphic flower.



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13. How do the petals in pea plant are arranged? What is such type of arrangement called?



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14. What is meant by epipetalous condition?

Give an example.



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15. Differentiate between apocarpous and syncarpous ovary.



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16. Define placentation. What type of placentation is found in Dianthus.



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17. What is meant by parthenocarpic fruit?
How is it useful?



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18. What is the type of fruit found in mango?

How does it differ from that of coconut?



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19. False fruits are found in



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20. Name any two plants having single seeded dry fruits.



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21. Define Schizocarpic dry fruits. Give an example.



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22. Define mericarp. In which plant you find it?



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23. What are aggregate fruits? Give two examples.



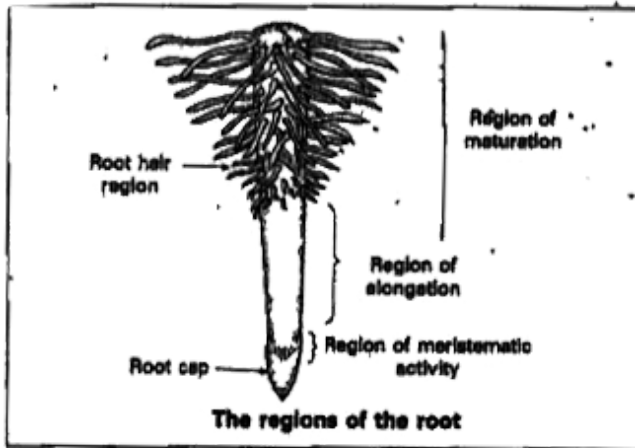
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24. Name a plant that has single fruit developing from the entire inflorescence. What is such a fruit called?



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1. Explain different regions of root with neat labelled diagram.



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2. Justify the following statements on the basis of external features

(i) Underground parts of a plant are not always roots

(ii) Flower is a modified shoot



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3. Explain with suitable examples the different types of phyllotaxy?



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4. How do the various leaf modifications help plants?



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5. Describe any two special types of Inflorescences.



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6. Describe the arrangement of floral members in relation to their insertion on thalamus?



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7. The flower of many angiospermic plants which show sepals and petals differ with respect to the arrangement of sepals and petals in respective whorls". Explain



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8. Describe the various types of placentations found in flowering plants.



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9. Describe in brief fleshy fruits you studied.



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10. Describe with examples, the various dry fruits you studied.





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Long Answer Type Questions

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



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2. Explain how stem is modified variously to perform different functions.



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3. Explain different types of Racemos inflorescences.



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Textual Exercises

1. In which plant, the underground stem grows horizontally in soil and helps in perennation?



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2. Needle like phylloclades are found in which plant?



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3. Why do plants like Nepenthes trap Insects?



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4. Characteristic inflorescence of family compositae (Asteraceae)



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5. Can you name a plant that has least number of flowers in its inflorescence?



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6. Which family shows naked flowers?



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7. What type of Inflorescence is found in fig trees? Why does the insect *Blastophaga* visit the Inflorescence of fig tree?



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8. Flower of canna is



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9. On which side of the flower do the flowers of pea have the keel petals?



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10. What is the ratio of overlapping margins of petals to overlapped ones in imbricate aestivation?



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11. How many ovules are found attached in Basal placentation?



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12. Which part of the flower in Cashew plant forms the false fruit?



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13. Which plant has hard, stony endocarp and fleshy edible mesocarp?



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14. What is the morphology of spathe in spadix Inflorescence?



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15. What is the type of fruit known as if it develops from apocarpus ovary of a single flower?



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