



BIOLOGY

BOOKS - BAL BHARTI

MORPHOLOGY OF FLOWERING PLANTS

Use Your Brain Power

1. Why underground stem is different from roots.



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2. Why the stem has to perform photosynthesis in xerophytes?



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Exercise

1. Which one of the following will grow better in moist and shady region?

A. Opuntia

B. Orchid

C. Mangroove

D. Lotus

Answer:



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2. A particular plant had a pair of leaves at each node arranged in one plane. What is the arrangement called?

- A. Alternate phyllotaxy
- B. Decussate phyllotaxy
- C. Superposed phyllotaxy
- D. Whorled phyllotaxy

Answer:



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3. Beet and Arum both store food for perennation. Are the examples for two different types?

A. Beet is a stem but Arum is a root

B. Beet is a root but Arum is a stem

C. Beet is a stem but Arum is a leaf

D. Beet is a stem but Arum is an
inflorescence

Answer:



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4. Two of the vegetables we consume are nothing but leaf bases. Which are they?



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5. Opuntia has spines but Carissa has thorns. What is the difference?



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6. Teacher described Hibiscus as solitary Cyme.

What it means?



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7. Write short note on: Fusiform Root.



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8. Writes notes on:

Racemose inflorescence



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9. Write short note on Fasciculated tuberous root.



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10. Write a short note on Region of Cell Maturation.



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11. Write short note on Rhizome.



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12. Writes notes on:

Stolon



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13. Write short note on leaf venation.



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14. Writes notes on:

Cymose inflorescence.



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15. Write short note on perianth.



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16. Write short note on Vexillary aestivations.





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17. Write short note on Axile placentation.



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18. Students were on the excursion to a botanical garden. They noted following observation. Will you be able to help them in understanding those conditions?

A wiry outgrowth was seen on a plant arising from in between the leaf and stem.



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19. There was a green plant with flat stem, but no leaves. The entire plant is covered by soft spines.



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20. Many obliquely roots were given out from the lower nodes, apparently for extra support.



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21. Many plants in the marshy region had upwardly growing roots. They could be better seen during low tide.



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22. A plant had leaves with long leaf apex, which was curling around a support.



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23. A plant was found growing on other plant. Teacher said it is not a parasite. It exhibited two types of roots.



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24. While having lunch onion slices were served to them. Teacher asked which part of the plant are you eating?



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25. Students observed large leaves of coconut and small leaves of Mimosa. Teacher asked in what way they are similar?



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26. Teacher showed them Marigold flower and said it is not an onion flower. What the teacher meant?



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27. Students cut open a papaya fruit and found all the seeds attached to the sides. Teacher inquired about the possible placentation of papaya ovary.



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28. Match the following

'Group A'

'Group B'

1



A Marginal

2



B Basal

3



C Axile

4



D Free central

5



E Parietal



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29. Differentiate between Racemose and Cymose Inflorescence.



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30. Differentiate between reticular and parallel venation.



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31. Differentiate between Tap root system and adventitious root system.



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