

## **BIOLOGY**

**BOOKS - PSEB** 

## MORPHOLOGY OF FLOWERING PLANTS

Exercise

1. What is meant by modification of root?

What type of modification of root is found in

A. Banyan tree
B. Turnip
C. Mangrove trees
D.
Answer:
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the:

**2.** Justify the following statements on the basis of external features: Underground parts of a plant are not always roots.



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**3.** Justify the following statements on the basis of external features: Flower is a modified shoot.



**4.** How is a pinnately compound leaf different from a palmately compound leaf?



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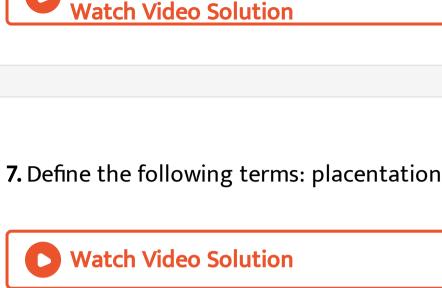
**5.** Explain with suitable examples the different types of phyllotaxy.



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**6.** Define the following terms: aestivation





8. Define the following terms: actinomophic



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**9.** Define the following terms: zygomorphic





**10.** Define the following terms: superior ovary



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11. Define the following terms: perigynous flower



**12.** Define the following terms: epipetalous stamen



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**13.** Differentiate between : Racemose and cymose inflorescence



**14.** Differentiate between : Fibrous root and adventitious root



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**15.** Differentiate between : Apocarpous and syncarpous ovary



**16.** Draw the labelled diagram of the following: gram seed



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**17.** Draw a well labelled diagram showing structure of L.S. of Maize grain.



**18.** Describe modifications of stem with suitable examples.



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**19.** Describe the various types of placentations found in flowering plants.



**20.** What is a flower? Describe the parts of a typical angiosperm flower.



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**21.** How do the various leaf modifications help plants?



**22.** Define the term inflorescence. Explain the basis for the different types



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**23.** inflorescence in flowering plants.



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**24.** Write the floral formula of a actinomorphic, bisexual, hypogynous flower with five united

sepals, five free petals, five free stamens and two united carples with superior ovary and axile placentation.



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**25.** Describe the arrangement of floral members in relation to their insertion on thalamus.

