



# BIOLOGY

## NCERT - NCERT BIOLOGY(ENGLISH)

### MORPHOLOGY OF FLOWERING PLANTS

#### Exercise

1. What is meant by modification of root?

What type of modification of root is found in

the

(a) Banyan tree

(b) Turnip

(c) Mangrove trees



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



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



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5. Define the following terms:

(a) Aestivation

(b) Placentation

(c) Actinomorphic

(d) Zygomorphic

(e) Superior ovary

(f) Perigynous flower

(g) Epipetalous Stamen



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**6. Differentiate between**

- (a) Racemose and cymose inflorescence
- (b) Fibrous roots and adventitious roots
- (c) Apocarpous and syncarpous ovary



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**7. Draw the labelled diagram of the following:**

- (i) Gram seed
- (ii) V.S. of maize seed



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## 8. MODIFICATIONS OF STEM



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9. Take one flower each of families Fabaceae and Solanaceae and write its semitechnical description. Also draw their floral diagrams after studying them.



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



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**11.** A typical angiosperm flower consists of four floral parts. Give the names of the floral parts and their arrangements sequentially.



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



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**13.** Define the term inflorescence. Explain the basis for the different types of inflorescence in flowering plants.



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**14.** Write the floral formula of an actinomorphic bisexual, hypogynous flower with five united sepals, five free petals. Five free stamens and two united carpals with superior ovary and axile placentation.



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





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