



BIOLOGY

BOOKS - CBSE COMPLEMENTARY

MATERIAL BIOLOGY (HINGLISH)

MORPHOLOGY OF FLOWERING

PLANTS

Very Short Answer Question

1. Which part of Opuntia is modified to form spines ?



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2. Name one plant in which leaf is pinnately compound.



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3. In mangroves, pneumatophores are the modified adventitious roots. How are these roots helpful to the plant ?



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4. Which parts of ginger and onion are edible?



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5. Why do various plants have different type of phyllotaxy ?



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6. State the main function of leaf tendril.



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7. Which plant family represent the following floral formula :



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8. The endosperm is formed as a result of double fertilisation (triple fusion). What is its function ?

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9. Which type of venation do you observe in dicot leaf ?



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10. In pea flower, the aestivation in corolla is known as vexillary. Give reason.



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11. What is the name given to the cotyledon in case of Monocots.



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12. Name the part modified for food storage in the following (a) carrot (b) Radish (c) Potato (d) Dahlia (e) Turmeric (f) Sweet potato



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1. Flower is a modified shoot Justify.



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2. Name the type of root of the following :

(a) Roots performing the surface of the soil to absorb air.

(b) Roots come above the surface of the soil to absorb air.

(c) pillar like roots developed from lateral branches for providing mechanical support.

(d) Root coming out of the lower nodes of the stem and provide the support to the plant.



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3. Identify the type of tendrils found in the following plants— (a) Cucumber (b) pea (c) and (d) in the table given below:



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4. Fill up the blank spaces (a), (b), (c) and (d) in the table given below :

| Type of flower | Position of calyx, corolla and respect of the ovary on thalamus | Type of ovary |
|-----------------|---|---------------|
| Hypogynous | (a) | Superior |
| Perigynous | On the rim of the thalamus almost at the same level of ovary. |(b)..... |
| (c) | (d) | Inferior |

(i)

Provide the scientific terms for the following :-

The leaf without a petiole (stalk).

(ii) Provide the scientific terms for the following :-The flat and expanded portion of a leaf.

(iii) Provide the scientific terms for the following :-Orderly arrangement of leaves on the node.

(iv) Provide the scientific terms for the following :-Lateral appendages on either side of the leaf.



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5. provide the scientific terms for the following:

(i)The leaf without a petiole(stalk).

(ii)The flat and expanded portion of a leaf.

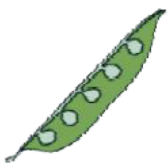
(iii)Orderly arrangement of leaves on the node.

(iv) Lateral appendages on either side of the leaf.

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Short Answer Question II

1. Observe the given figure showing various types of placentation. Identify the type of placentation. Give one example of each.



(a)



(b)



(c)



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2. 'Potato is a stem and sweet potato is a root.'

Justify the statement on the basis of external features.



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3. Define aestivation. Which type of aestivation

is found in China rose, Calotropis Gulmohar and Pea.



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4. Give two example of each type of phyllotaxy.



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5. (a) Differentiate between :- Actinomorphic flower and Zygomorphic flower

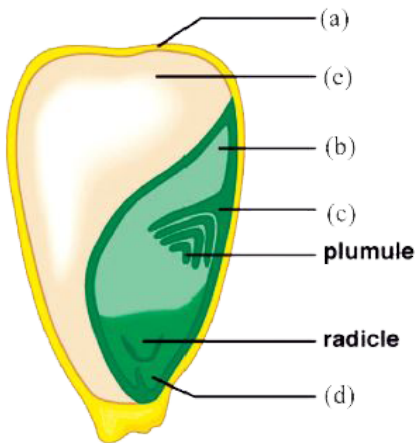
(b) Differentiate between :- Apocarpous ovary and Syncarpous ovary

(c) Differentiate between :- Racemose inflorescence and Cymose inflorescence



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6. In the given structure of a Monocotyledonous seed label the parts a, b, c, d, e. Give the function of part 'a'.



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7. Maize grain usually called as a fruit and not a seed. Why ?



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Long Answer Questions

1. Describe various stem modifications associated with food storage, climbing and protection.



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