

Plants – Form and Functions

ORAL QUESTIONS

A. Answer these questions orally.

1. Is radish a biennial or a perennial plant?
2. Which of these are shrubs?
Bougainvillea, Pansy, Paddy, Lemon, Coriander, Rose
3. Which of these are nonflowering plants?
Ferns, Mango, Rose, Algae, Mustard
4. Which part of the plant holds the soil particles together?
5. What is the other name for
(a) Fibrous roots (b) Tap roots
6. Name two trees which have prop roots.
7. What is the part of the stem between two adjacent nodes called?
8. Name the part of the plant which connects the root system with the rest of the plant parts.
9. Name the part of the plant which develops from the plumule of the seed.
10. Name two plants which have climbing roots.

B. Fill in the blanks.

1. The _____ present in rose plant protects it from grazing animals.
2. In a _____ leaf, the lamina is undivided whereas in a _____ leaf, the lamina is divided.
3. In cacti, leaves are modified into _____
4. After fertilisation, ovary of a flower grows, into _____ and ovules form _____
5. _____ are the reproductive organs of a flower.

C. Select the odd-one out.

1. Petal, Sepal, Carpel, Stamen, Lamina
2. Potato, Ginger, Onion, Radish, Zimikand
3. Betal, Banyan, Black pepper, Money plant

PUZZLE/QUIZ

D. Solve the crossword puzzle with the help of the clues given.

- ACROSS: 1. Transfer of pollen from anther to stigma (11)
 2. Green, flat part of the leaf (6)
 3. A shrub (3)
 5. Additional pillar like roots (4)
 7. The point where a leaf or a branch attaches to stem (4)
 9. Modified stem in potato (5)
 10. Female gamete that matures into a seed (5)
 11. Lateral branches arising from the midrib of a leaf (5)
 12. Root system found in carrot (3)

- DOWN: 1. Male gamete found in anthers (6)
 4. Male reproductive organs of a flower (7)
 5. Leaf stalk (7)
 6. Coloured scented part of a flower (6)
 8. Swollen basal part of carpel grows from this (5)

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E. Given below are some jumbled words. Arrange them into meaningful words. Take help from the clues given in the brackets.

1. N I L P R E E N A

(Plants that live for more than two years)

2. N B A Y N A

(A tree which has prop roots)

3. I N G R G E

(A plant in which underground stem stores food)

CLASS TEST

F. Short answer questions.

1. Differentiate between the following.

(a) Complete flower and Incomplete flower

COMPLETE FLOWER	INCOMPLETE FLOWER

(b) Sepals and Petals

SEPALS	PETALS

2. How are plants classified on the basis of the following.

(a) Structure and size

(b) Life span

3. What do you understand by root system? What does it consist of?

4. List the characteristics of roots.

5. How do roots prevent soil erosion?

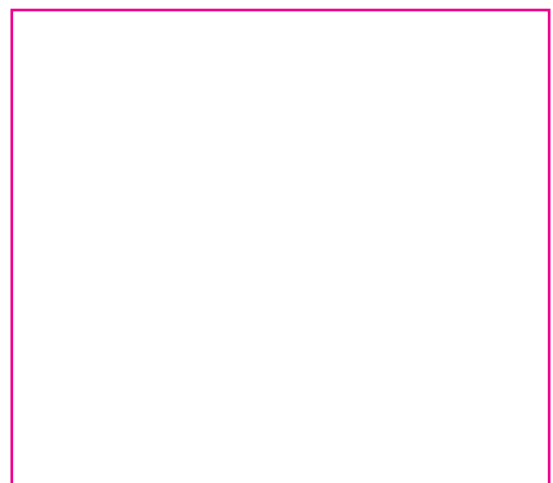
6. What are the functions of veins present in leaves?

7. What are the three parts of carpel?

G. Long answer questions.

1. Explain the different parts of the root system.

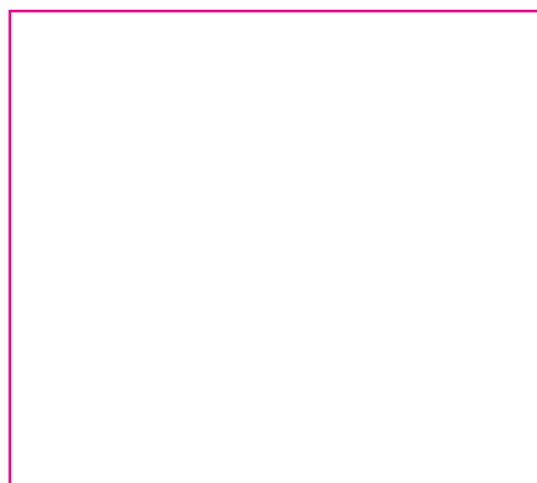
Draw the diagram also.



2. Draw and explain the various parts of a leaf.



3. Draw and explain the various parts of a flower.



HOME ASSIGNMENT

H. Think and answer.

1. Look at the prop roots of a banyan tree. These roots grow downwards and penetrate into the soil? What are the function of these roots?



2. Look at the climbing roots of a money plant. How are these roots useful for the plant?



WORKSHEET

I. Give reasons for the following.

1. In cacti, leaves are modified into spines.

2. Stigma of a flower is sticky.

3. In prickly poppy, leaf margins bear spines.
