

Chapter – 5 | Morphology of Flowering Plants

QUIZ
PART-01

1. In dicot plants, the primary root develops from which part of the embryo?
- A. Plumule
B. Radicle
C. Cotyledon
D. Node (B)

Explanation : In dicotyledonous plants, the primary root forms by elongation of the radicle.

2. Which root system is formed by the primary root and its branches?
- A. Fibrous root system
B. Adventitious root system
C. Tap root system
D. Prop root system (C)

Explanation : The primary root along with secondary and tertiary roots forms the tap root system.

3. Fibrous root system is commonly found in:
- A. Mustard B. Wheat
C. Banyan D. Rose (B)

Explanation : In monocot plants like wheat, the primary root is short-lived and is replaced by fibrous roots.

4. Roots arising from parts other than the radicle are called:
- A. Tap roots
B. Lateral roots
C. Adventitious roots
D. Primary roots (C)

Explanation : Adventitious roots arise from any plant part other than the radicle.

5. The root cap mainly helps in:
- A. Absorbing sunlight
B. Protecting the tender root apex
C. Producing flowers
D. Making food (B)

Explanation : The root cap protects the delicate root tip while it pushes through soil.

6. Which region of root contains continuously dividing cells?
- A. Region of maturation
B. Region of elongation
C. Region of meristematic activity
D. Root hair region (C)

Explanation : The meristematic region has small, thin-walled cells with dense protoplasm that divide continuously.

7. Root hairs are mainly found in the:
- A. Root cap
B. Region of maturation
C. Region of elongation
D. Stem node (B)

Explanation : Root hairs develop in the maturation region and absorb water and minerals.

8. The stem develops from:
- A. Radicle
B. Plumule
C. Root cap
D. Seed coat (B)

Explanation : The stem develops from the plumule of the embryo during seed germination.

9. The region of stem from where leaves arise is called:
- A. Internode B. Node
C. Petiole D. Root hair (B)

Explanation : Leaves arise from nodes on the stem.

10. In the young stage, the stem is generally:
- A. Woody and dark brown
B. Green
C. Fibrous
D. Root-like (B)

Explanation : Young stems are usually green, while mature stems may become woody and dark brown.