

Class : XIth
Date :

Subject : BIOLOGY
DPP No. :4

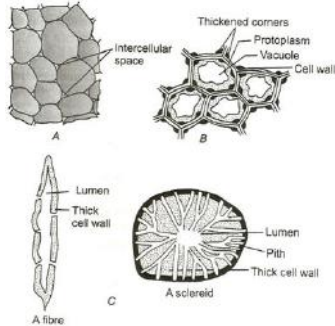
Topic :-Anatomy Of Flowering Plants

- Intrafascicular cambium is present in between the
 - Primary xylem and secondary xylem
 - Secondary phloem and primary xylem
 - Primary xylem and secondary phloem
 - Primary xylem and secondary phloem
- In dicotyledonous roots, the initiation of lateral roots takes place in
 - Endodermal cells
 - Cortical cells
 - Epidermal cells
 - Pericycle cells
- The roots of angiosperms show exarch xylem and their stems have endarch bundles. These are continuous throughout the change occurs in
 - Epicotyl region
 - Hypocotyl region
 - Upper part of root
 - Lower part of stem
- The stele found in monocot is
 - Haplostele
 - Atactostele
 - Dictyostele
 - Actinostele
- Largest number of chloroplast is found in
 - Palisade tissue
 - Spongy tissue
 - Transfusion tissue
 - Bundle sheath cells
- Ground tissue includes
 - All tissues except epidermis and vascular bundles
 - Epidermis and cortex
 - All tissues internal to endodermis
 - All tissues external to endodermis
- Cambium is present in between
 - Phloem and xylem
 - Permanent mature cells
 - Collenchyma and sclerenchyma
 - Collenchyma and parenchyma
- All the following statements regarding sieve tube elements are true except
 - Their end walls have perforated sieve plates which become impregnated with lignin at maturity
 - They possess peripheral cytoplasm as well as a large vacuole
 - Distinct proteinaceous inclusions, the P-proteins are seen evenly distributed throughout the lumen
 - Long, slender, tube-like structures arranged in longitudinal series

9. 'Exarch' is the condition of vascular bundles in which
- | | |
|--|--|
| a) Protoxylem lies toward the outside and metaxylem lies inward | b) Metaxylem lies toward the outside and protoxylem lies inward |
| c) Metaxylem lies toward the lateral side and protoxylem lies inward | d) Protoxylem lies toward the lateral side and metaxylem lies inward |
10. Select the correct statements
- I. Epidermal call have small amount of cytoplasm and a large vacuole
 - II. Waxy layer cuticle is absent in roots
 - III. Root hairs are unicellular, while stem hairs/trichomes are multicellular
 - IV. Trichomes are branched/unbranched, soft/stiff and secretory or transpiration preventive
 - V. Guard cells are dum-bell-shaped in dicots and bean-shaped in monocots (*e.g.*, grass)
- | | |
|-------------------------|-------------------|
| a) All except I and II | b) All except III |
| c) All except II and IV | d) All except IV |
11. In dicot root, the vascular cambium are
- a) Completely secondary in origin
 - b) Completely primary in origin
 - c) Secondary as well as primary in origin
 - d) Does not exist
12. I. Annual rigs are formed as a result of seasonal environmental conditions
 II. Tracheids/vessels elements are larger during periods when water is abundant
 III. Tracheids/vessels elements have thicker wall during periods of water deprivation
 IV. Wood formed in the previous years is darker than newer wood
 Select the combination of correct statements from the options given below
- | | | | |
|-------------|--------------|------------------|-------------------|
| a) I and II | b) II and IV | c) I, II and III | d) II, III and IV |
|-------------|--------------|------------------|-------------------|
13. Select the incorrect statements
- I. Excessive loss of water is prevented by epidermis
 - II. Stomata develop from epidermal tissue
 - III. Photosynthesis is one of the primary function of leaf ground tissue
- | | | | |
|-------------|---------------|--------------|----------------------|
| a) I and II | b) II and III | c) III and I | d) None of the above |
|-------------|---------------|--------------|----------------------|
14. Which element of xylem is the characteristic feature of angiosperms?
- | | | | |
|--------------|-----------|------------|----------------|
| a) Tracheids | b) Phloem | c) Vessels | d) Xylem fibre |
|--------------|-----------|------------|----------------|
15. As compared to the dicot root, monocotyledon root have
- | | |
|------------------------|------------------------|
| a) More xylem bundles | b) More phloem bundles |
| c) Less phloem bundles | d) Less xylem bundles |
16. The function of a vessel is conduction of
- | | | | |
|---------|-----------------------|-------------|-----------------|
| a) Food | b) Water and minerals | c) Hormones | d) All of these |
|---------|-----------------------|-------------|-----------------|

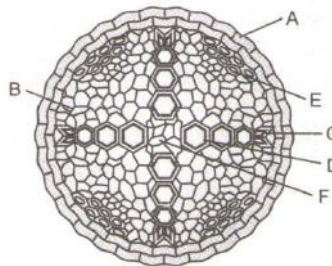
17. Complex tissue includes
 a) Collenchyma b) Apical meristem c) Conducting tissue d) Idioblast

18. Identify the types of simple tissue given in the diagram A, B and C



- a) A-Parenchyma, B-Sclerenchyma, C-Collenchyma
 b) A-Parenchyma, B-Collenchyma, C-Sclerenchyma
 c) A-Sclerenchyma, B-Collenchyma, C-Parenchyma
 d) A-Sclerenchyma, B-Parenchyma, C-Collenchyma

19. In the diagram of TS of stele of dicot root, the different parts have been indicated by alphabets, choose the answer in which these alphabets correctly match with the parts they indicate.



- a) 1. Endodermis, B- Conjunctive tissue, C- Metaxylem, D- Protoxylem, E- Phloem, F- Pith
 b) 1. Endodermis, B- Pith, C- Protoxylem, D- Metaxylem, E- Phloem, F- Conjunctive tissue
 c) 1. Pericycle, B- Conjunctive tissue, C- Metaxylem, D- Protoxylem, E- Phloem, F- Pith
 d) 1. Endodermis, B- Conjunctive tissue, C- Protoxylem, D- Metaxylem E- Phloem, F- Pith
 2.
20. The layer of cells outside the phloem meant for giving rise to the root branches is called
 a) Cambium b) Carpous c) Endodermis d) Pericycle