

**Section A**

● Write the answer of the following questions. [Each carries 1 Mark] [20]

1. A transverse section of stem is stained first with safranin and then with fast green following the usual schedule of double staining for the preparation of a permanent slide. What would be the colour of the stained xylem and phloem ?

- (A) Red and green      (B) Green and red      (C) Orange and yellow      (D) Purple and orange

2. Match the following columns :

Column-I	Column-II
(a) Meristem	(i) Photosynthesis, storage
(b) Parenchyma	(ii) Mechanical support
(c) Collenchyma	(iii) Actively dividing cells
(d) Sclerenchyma	(iv) Stomata
(e) Epidermal tissue	(v) Sclereids

- (A) (a - i), (b - iii), (c - v), (d - ii), (e - iv)      (B) (a - iii), (b - i), (c - ii), (d - v), (e - iv)  
 (C) (a - ii), (b - iv), (c - v), (d - i), (e - iii)      (D) (a - v), (b - iv), (c - iii), (d - ii), (e - i)

3. Match the following columns :

Column-I	Column-II
(a) Cuticle	(i) Guard cells
(b) Bulliform cells	(ii) Single layer
(c) Stomata	(iii) Waxy layer
(d) Epidermis	(iv) Empty colourless cell

- (A) (a - iii), (b - iv), (c - i), (d - ii)      (B) (a - i), (b - ii), (c - iii), (d - iv)  
 (C) (a - iii), (b - ii), (c - iv), (d - i)      (D) (a - iii), (b - ii), (c - i), (d - iv)

4. Cells of this tissue are living and show angular wall thickening. They also provide mechanical support. The tissue is

- (A) Xylem      (B) Sclerenchyma      (C) Collenchyma      (D) Epidermis

5. Epiblema of roots is equivalent to

- (A) Pericycle      (B) Endodermis      (C) Epidermis      (D) Stele

6. Phellogen and phellem respectively denote

- (A) Cork and cork cambium      (B) Cork cambium and cork  
 (C) Secondary cortex and cork      (D) Cork and secondary cortex

7. Interfascicular cambium and cork cambium are formed due to

- (A) Cell division      (B) Cell differentiation      (C) Cell dedifferentiation      (D) Redifferentiation

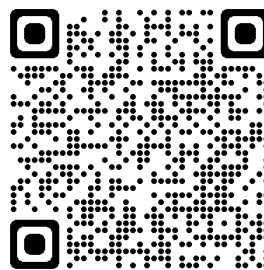
8. How many shoot apical meristems are likely to be present in a twig of a plant possessing, 4 branches and 26 leaves ?

- (A) 26      (B) 1      (C) 5      (D) 30

9. A plant tissue, when stained, showed the presence of hemicellulose and pectin in cell wall of its cells. The tissue represents

- (A) Collenchyma      (B) Sclerenchyma      (C) Xylem      (D) Meristem

10. Fibres are likely to be absent in  
(A) Secondary phloem (B) Secondary xylem (C) Primary phloem (D) Leaves
11. A vessel less piece of stem possessing prominent sieve tubes would belong to  
(A) Pinus (B) Eucalyptus (C) Grass (D) Trochodendron
12. In what exarch vessel is seen ?  
(A) Root (B) Stem (C) Leaf (D) All of the above
13. Due to development of what lenticells develop ?  
(A) Vascular cambium (B) Cortex  
(C) Cork cambium (D) Intercalary meristem tissue
14. In what prostele is found ?  
(A) Bryophytes (B) Gymnosperms (C) Pteridophytes (D) Angiosperms
15. Meristematic tissue located in vascular bundle is .....  
(A) Cork (B) Procambium  
(C) Sub-cork (D) Fascicular cambium
16. Of what medullary rays made ?  
(A) Fibres (B) Tracheids (C) Sclerenchyma cells (D) Parenchyma cells
17. In which tissue food is stored ?  
(A) Collenchyma tissue (B) Parenchyma tissue  
(C) Palisade tissue (D) Sclerenchyma tissue
18. Which is not true for parenchyma ?  
(A) performs function of photosynthesis, storage and secretion  
(B) cells are isodiametric  
(C) it forms major component within organs  
(D) none of these
19. Collenchyma contains thickenings of  
(A) only pectin (B) hemicellulose and pectin  
(C) pectin and cellulose (D) (B) and (C) Both
20. Radial conduction of water takes through  
(A) ray parenchymatous cells of xylem (B) xylem fibres  
(C) xylem tubes (D) tracheids



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