

Class : XIth
Date :

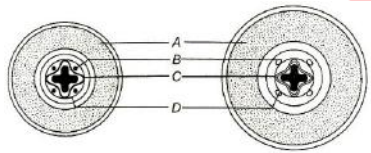
Subject : BIOLOGY
DPP No. :5

Topic :-Anatomy Of Flowering Plants

1. Arrange the following plants in ascending order based on the number of xylem strands in their roots.
I. *Trapa* II. *Pisum* III. *Castanea* IV. *Nicotiana*
a) II, IV, III, and I b) III, IV, II, and I c) IV, III, I, and II d) I, IV, II and III
2. 'Quiescent centre theory' was proposed by
a) Nagelli b) Schmidt c) Hanstein d) Clowes
3. In an annual ring, the light coloured part is known as
a) Early wood b) Late wood c) Heartwood d) Sapwood
4. In roots the
a) Protoxylem lies towards the periphery
b) Metaxylem lies towards the pith (centre)
c) Both (a) and (b)
d) Endarch condition is found
5. Epidermis is often covered with a waxy thick layer called
a) Cuticle b) Suberin c) Supporting cell d) All of these
6. I. Protection of internal tissue
II. Prevention of entry of any harmful organism
III. Minimising surface transpiration
IV. Protection against excessive heating up
These are the functions of which of the following?
a) Epidermis b) Cortex c) Hypodermis d) Cuticle
7. In a woody dicotyledonous tree, which of the following parts will mainly consist of primary tissues?
a) Stem and root b) All parts
c) Shoot tips and root tips d) Flowers, fruits and leaves

8. Old stem on *Combretum* has
a) Inter and intraxylary phloem
b) Inter and extraxylary phloem
c) Intra and extraxylary phloem
d) All of the above
9. Atactostele type of stele is found in
a) Dicot
b) Monocots
c) Both (a) and (b)
d) Only in gymnosperm
10. I. Sieve tube conduct organic food longitudinally
II. Xylem parenchyma cells stores food and help in lateral conduction of sap
Select the correct option
a) I is incorrect, but II is correct
b) II is incorrect, but I is correct
c) I and II are correct
d) I and II are incorrect
11. Growth rings are formed due to activity of
a) Extrastelar cambium b) Intrastelar cambium c) Interstelar cambium d) Both (b) and (c)
12. Water impermeable, waxy material secreted by endodermal cells is called
a) Lignin b) Suberin c) Conjunctive tissue d) Pectin
13. Tyloses are balloon-like ingrowths in vessels developing from the adjoining
a) Fibres through pits on vessel wall
b) Fibres through the general surface of vessel wall
c) Parenchyma through pits on vessel wall
d) Parenchyma through the general surface of vessel wall
14. Select the correct statement from the following
a) The cells of the permanent tissue do not generally divide
b) Permanent tissues having all cells similar in structure and function are called simple tissues
c) Permanent tissues having many different types of cells are called complex tissues
d) All of the above
15. Tissues involved in secondary growth is/are
I. intercalary stem
II. vascular cambium
III. cork cambium
Select the correct options from below
a) I and II b) II and III c) I and III d) I, II and III

16. Which is a characteristic of dicots?
- a) Roots develop from radicle
b) Secondary growth usually absent
c) Floral parts in multiple of three
d) Parallel leaf veins
17. Identify the plant parts whose transverse section shows a clear and prominent pith.
- a) Dicot and monocot stems
b) Dicot stem and monocot root
c) Dicot and monocot roots
d) Dicot stem and dicot root
18. A tree grows at the rate of 0.5 m per year. What will be the height of the board fixed at 1.5 m above the base five years ago?
- a) 4.0 m
b) 3.5 m
c) 1.5 m
d) 4.5 m
19. Mesophylls of monocotyledon leaf are not differentiated into
- a) Palisade tissue
b) Spongy parenchyma
c) Bulliform cells
d) Both (a) and (b)
20. In the given diagram of secondary growth of dicot root, identify *A* to *D* and choose the correct option



- a) A-Cortex, B-Primary phloem, C-Cambial ring, D-Protoxylem
b) A-Cortex, B-Primary phloem, C-Cambial ring, D-Pericycle
c) A-Cortex, B-Primary phloem, C-Primary xylem, D-Pericycle
d) A-Cortex, B-Primary phloem, C-Primary xylem, D-Protoxyleme