

NEET - C6 - ANATOMY OF FLOWERING PLANTS**1. Heart wood helps in**

- A. Ascent of sap
B. Translocation of food
C. Mechanical support
D. Circulation of solutes

2. Sequence of cellular layers from the periphery towards the cortex in an old dicot stem is

- A. Epidermis, phellogen, phellem, epidermis
B. Epidermis, hypodermis, phellogen, phelloderm
C. Epidermis, phellem, phellogen, phelloderm
D. Epidermis, hypodermis, cortex, endodermis

3. Function of vessel is

- A. Conduction of water and minerals
B. Conduction of food
C. Mechanical strength
D. All the above

4. Which tissue provides maximum mechanical strength to the plant

- A. Parenchyma
B. Xylem
C. Collenchyma
D. Phloem

5. Tissue present in annual rings is

- A. Primary phloem and secondary xylem
B. Secondary xylem
C. Primary xylem and primary phloem
D. Secondary xylem and secondary phloem

6. Which one of the following has dead cells

- A. Collenchyma
B. Chlorenchyma
C. Periderm
D. Endodermis

7. In sclerenchyma, wall is

- A. Lignified
B. Suberised
C. Pectinised
D. Cutinised

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- 8. Quiescent centre is the zone of**
- Least mitotic activity in root apex
 - Minimum mitotic activity in shoot apex
 - Maximum mitotic activity in shoot apex
 - Maximum mitotic activity in the root apex
- 9. In a plant organ covered by periderm, the stomata are absent Gaseous exchange occurs through**
- Aerenchyma
 - Lenticels
 - Trichomes
 - Pneumatophores
- 10. Cambium produces**
- Secondary permanent tissue
 - Secondary meristematic tissues
 - Secondary apical meristem
 - All the above
- 11. Mesophyll is differentiated into palisade and spongy tissues in**
- Extremely xerophytic leaves
 - Hydrophytic leaves
 - Monocot leaves
 - Dicot leaves
- 12. Dividing cells which are not yet committed to becoming specific cell type are**
- Ground cells
 - Epidermal cells
 - Meristem cells
 - Periderm cells
- 13. Parenchyma tissue is characterized by the presence of**
- Sclereids
 - Thick wall
 - Thin wall
 - None of the above
- 14. Duramen is**
- Sapwood
 - Heartwood
 - Bark
 - Periderm
- 15. The meristematic cells have**
- Thin walls
 - Prominent nuclei
 - Absence of vacuoles
 - All the above
- 16. Length of internodes in culm of Sugarcane is variable because of activity of**
- Shoot apical meristem
 - Intercalary meristem
 - Position of axillary buds
 - Size of leaf lamina

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17. Identify the plant parts whose transverse sections show a clear and prominent pith

- A. Dicot stem and monocot root
 B. Dicot stem and monocot stem
 C. Dicot stem and dicot root
 D. Dicot root and monocot root

18. Bamboo and Grass stems elongate by the activity of

- A. Intercalary meristem
 B. Apical meristem
 C. Lateral meristem
 D. Secondary meristem

19. Central resin-clogged secondary xylem is

- A. Central wood
 B. Heartwood
 C. Alburnum
 D. Hardwood

20. Youngest layer of secondary xylem in wood of dicot stem is located just

- A. Outside the cambium
 B. Inside the cambium
 C. Outside the pith
 D. Inside the cortex

21. Bicollateral vascular bundles have tissue arrangement

- A. Outer phloem - Outer cambium - Middle xylem - Inner cambium - Inner phloem
 B. Outer xylem - Outer cambium - Middle phloem - Inner cambium - Inner xylem
 C. Outer phloem - Outer xylem - Middle cambium
 D. Outer cambium - Outer phloem - Middle xylem - Inner phloem - Inner cambium

22. Endodermis is not differentiated in

- A. Monocot root
 B. Dicot root
 C. Monocot stem
 D. Dicot stem

23. Death of protoplasm is a pre-requisite for a vital function like

- A. Transport of sap
 B. Transport of food
 C. Absorption of water
 D. Gaseous exchange

24. A mature sieve tube differs from a vessel in

- A. Lacking a functional nucleus
 B. Presence of cytoplasm
 C. Being nearly dead
 D. Lacking cytoplasm

25. Radial vascular bundles are the ones in which xylem and phloem occur on

- A. Same radius
 B. Alternate radii
 C. Xylem outside and phloem inside
 D. Phloem outside and xylem inside

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NEET - C6 - ANATOMY OF FLOWERING PLANTS - KEY

1. C	2. C	3. A	4. B	5. B
6. C	7. A	8. A	9. B	10. A
11. D	12. C	13. C	14. B	15. D
16. B	17. A	18. B	19. B	20. B
21. A	22. C	23. A	24. B	25. B

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