



BIOLOGY

BOOKS - MODERN PUBLISHERS BIOLOGY (HINGLISH)

ANATOMY OF FLOWERING PLANTS

Practice Problems Tissues

1. Write the functions of parenchyma.

A.

B.

C.

D.

Answer:



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2. Function of collenchyma is -

A.

B.

C.

D.

Answer:



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3. Describe the functions of sclerenchyma.

A.

B.

C.

D.

Answer:



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4. Give any four examples of secondary meristem.

A.

B.

C.

D.

Answer:



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5. Describe briefly the tunica-carpus theory.

A.

B.

C.

D.

Answer:



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6. What is intercalary meristem ? How it can be differentiated from other meristems ?

A.

B.

C.

D.

Answer:



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7. What is wood ? What are the components of wood ?

Name two types of wood.

A.

B.

C.

D.

Answer:



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8. What briefly about laticiferous tissues.

A.

B.

C.

D.

Answer:



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9. What you know about glandular tissues ?

A.

B.

C.

D.

Answer:



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10. Differentiated between vessel and sieve tube.

A.

B.

C.

D.

Answer:



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Practice Problems Anatomy Of Root Stem And Leaf

1. What is the structure of stomata ?

A.

B.

C.

D.

Answer:



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2. Differentiate between protoxylem and metaxylem.

A.

B.

C.

D.

Answer:



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3. What are annual rings ?

A.

B.

C.

D.

Answer:



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4. What is meant by secondary growth? Which meristems are responsible for the secondary growth ?

A.

B.

C.

D.

Answer:



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5. Differentiate between stem hair and root hair.

A.

B.

C.

D.

Answer:



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6. Describe the vascular bundle of a monocot root.

A.

B.

C.

D.

Answer:



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7. Compare T.S. of monocot and dicot stem with the help of well labelled diagrams only.

A.

B.

C.

D.

Answer:



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8. Compare T.S. of monocot and dicot root with the help of well labelled diagrams only.

A.

B.

C.

D.

Answer:



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9. Compare V.S. of dicot and monocot leaf with the help of well labelled diagrams only.

A.

B.

C.

D.

Answer:



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Ncert File Solved Ncert Exercise Questions

1. State the location and function of different types of meristem.

A.

B.

C.

D.

Answer:



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2. Cork cambium forms tissues that form the cork. Do you agree with this statement? Explain.

A.

B.

C.

D.

Answer:



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3. Explain the process of secondary growth in stems of woody angiosperm with help of schematic diagrams.

What is the significance?

A.

B.

C.

D.

Answer:



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4. Draw illustrations to bring out anatomical difference between

(a) Monocot root and dicot root

(b) Monocot stem and dicot stem

A.

B.

C.

D.

Answer:



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5. Cut a transverse section of young stem of a plant from your school garden and observe it under the microscope. How would you ascertain whether it is a monocot stem or dicot stem? Give reasons.

A.

B.

C.

D.

Answer:



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6. The transverse section of a plant material shows the following anatomical features, (a) the vascular bundles are conjoint, scattered and surrounded by clerenchymatous undule sheaths (b) phloem parenchyma is absent. What will you identify it as?

A.

B.

C.

D.

Answer:



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7. Why are xylem and phloem called complex tissues?

A.

B.

C.

D.

Answer:



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8. What is stomatal apparatus? Explain the structure of stomata with a labelled diagram.

A.

B.

C.

D.

Answer:



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9. Name the three basic tissue systems in the flowering plants. Give the tissue names under each system.

A.

B.

C.

D.

Answer:



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10. How is the study of plant anatomy useful to us?

A.

B.

C.

D.

Answer:



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11. What is periderm? How does periderm formation take place in dicot stem?

A.

B.

C.

D.

Answer:



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12. Describe the internal structure of a dorsiventral leaf with the help of labelled diagrams.

A.

B.

C.

D.

Answer:



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Ncert File Solved Ncert Exemplar Problems A Multiple Choice Questions

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

Answer: A



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2. Match the following and choose the correct option from below

<i>A.</i> Meristem	<i>i.</i> Photosynthesis storage
<i>B.</i> Parenchyma	<i>ii.</i> Mechanical support
<i>C.</i> Collenchyma	<i>iii.</i> Actively dividing cells
<i>D.</i> Sclerenchyma	<i>iv.</i> Stomate
<i>E.</i> Epidermal tissue	<i>v.</i> 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*

Answer: B



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3. Match the following and choose the correct option

from below

- | | |
|----------------------|----------------------------------|
| A. Cuticle | <i>i.</i> Guard cells |
| B. Bullie form cells | <i>ii.</i> single layer |
| C. Stomate | <i>iii.</i> Waxy layer |
| D. Epidermis | <i>iv.</i> 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)

Answer: A



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4. Identify the tissue system from among the following

A. Parenchyma

B. Xylem

C. Epidermis

D. Phloem

Answer: A



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5. Cells of this tissue are living and show angular wall thickenings. They also provide mechanical support.

The tissue is

A. Xylem

B. Sclerenchyma

C. Collenchyma

D. Epidermis

Answer: C



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6. Epiblema of roots is equivalent to

- A. Pericycle
- B. Endodermis
- C. Epidermis
- D. Stele

Answer: C

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7. A conjoint and open vascular bundle will be observed in the transverse section of

A. Monocot root

B. Monocot stem

C. Dicot root

D. Dicot stem

Answer: D



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8. Interfascicular cambium and cork cambium are formed due to

A. Cell division

B. Cell differentiation

C. Cell dedifferentiation

D. Redifferentiation

Answer: A



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9. 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

Answer: B



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10. In which of the following pairs of parts of a flowering plants is epidermis absent?

A. Root tip and shoot tip

B. Shoot bud and floral bud

C. Petiole and pedicel

D.

Answer: A



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11. 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

Answer: C



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12. A piece of wood having no vessels (trachea) must be belong to

A. Teak

B. Mango

C. Pine

D. Palm

Answer: C



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13. 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

Answer: A



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14. Fibres are likely to be absent in

A. Secondary phloem

B. Secondary xylem

C. Primary phloem

D. Leaves

Answer: D



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15. When we peel the skin of a potato tuber, we remove

A. Periderm

B. Epidermis

C. Cuticle

D. Sapwood

Answer: A



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16. A vesselless piece of stem possessing prominent sieve tubes would belong to

A. Pinus

B. Eucalyptus

C. Grass

D. Trochodendron

Answer: D



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17. Which one of the following cells types always divides by anticlinal cell division?

A. fusiform initial cells

B. root cap

C. protoderm

D. phellogen

Answer: D



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18. What is the fate of primary xylem in a dicot root showing extensive secondary growth?

- A. It is retained in the centre of the axis
- B. It gets crushed
- C. May or many not get crushed
- D. It gets surrounded by primary phloem

Answer: A



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Ncert File Solved Ncert Exemplar Problems B Very Short Answer Type Questions

1. Product of photosynthesis is transported from the leaves to various parts of the plants and stored in some cell before being utilised. What are the cells/tissues that store them ?

A.

B.

C.

D.

Answer:



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2. Protoxylem is the first formed xylem. If the protoxylem lies next to phloem what kind of arrangement of xylem would you call it ?

A.

B.

C.

D.

Answer:



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3. What is the function of phloem parenchyma ?

A.

B.

C.

D.

Answer:



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4. What is present at the surface of leaves which helps the plant prevent loss of water but is absent in roots?

A.

B.

C.

D.

Answer: Cuticle



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5. What is the epidermal cell modification in plants which prevents water loss ?

A.

B.

C.

D.

Answer:



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6. What part of the plant would show the following ?

(a) Radial vascular bundle

(b) Polyarch xylem

(c) Well develop pith

A.

B.

C.

D.

Answer:



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7. What are the cells that make the leaves curl in plants during water stress ?

A.

B.

C.

D.

Answer:



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8. What constitutes the cambial ring ?

A.

B.

C.

D.

Answer:



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9. Give on basic functional difference between phellogen and phelloderm.

A.

B.

C.

D.

Answer:



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10. Arrange the following in the sequence you would find them in a plant starting from the periphery-
phellem, phellogen, phelloderm.

A.

B.

C.

D.

Answer:



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11. If one debarks a tree, what parts of the plant is being removed ?

A.

B.

C.

D.

Answer:



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12. The cross-section of a plant material showed the following features when viewed under the microscope

(a) The vascular bundles were radially arranged

(b) Four xylem strands with extrach condition of protoxylem. To which organ should it be assigned ?

A.

B.

C.

D.

Answer: Young dicot root.

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13. What do hard wood and soft wood stand for?

A.

B.

C.

D.

Answer:

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Ncert File Solved Ncert Exemplar Problems C Short Answer Type Questions

1. While eating peach or pear it is usually seen that some stone like structures get entangled in the teeth, what are these stone like structures called ?

A.

B.

C.

D.

Answer:



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2. What is the commercial source of cork ? How is it formed in the plant ?

A.

B.

C.

D.

Answer:



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3. Below is a list of plant. From which part of the plant these are obtained.

(a) Coir

(b) hemp

(c) cotton

(d) jute.

A.

B.

C.

D.

Answer:



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4. What are the characteristic differences found in the vascular tissue of gymnosperms and angiosperms ?

A.

B.

C.

D.

Answer:

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5. Epidermal cells are often modified to perform specialised functions in plants. Name some of them and function they perform.

A.

B.

C.

D.

Answer:



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6. The lawn grass (*Cyandon dactylon*) needs to be moved frequently to prevent its overgrowth. Which tissue is responsible for its rapid growth ?

A.

B.

C.

D.

Answer: Maristematic tissue



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7. Plants require water for their survival. But when watered excessively, plants die. Discuss.

A.

B.

C.

D.

Answer:



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8. A transverse section of the trunk of a tree shows concentric rings which are known as growth rings. How are these rings formed ? What is the significance of these rings ?

A.

B.

C.

D.

Answer:



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9. Trunks of some of the aged tree species appear to be composed of several fused trunks. Is it a physiological or anatomical abnormality? Explain in detail.

A.

B.

C.

D.

Answer:



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10. What is the difference between lenticels and stomata ?

A.

B.

C.

D.

Answer:



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11. Write the precise function of

(a) sieve tube

(b) interfascicular cambium

(c) collenchyma

(d) aerenchyma.

A.

B.

C.

D.

Answer:



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12. The stomatal pore is guarded by two kidney shaped guard cells. Name the epidermal cells surrounding the guard cells. How does a guard cell differ from an epidermal cell ? Use a diagram to illustrate your answer.

A.

B.

C.

D.

Answer:



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13. Point out the differences in the anatom of leaf of peepal (*Ficus religiosa*) and maize (*Zea mays*). Draw the diagrams and label the differences.

A.

B.

C.

D.

Answer:



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14. Palm is a monocotyledonous plant, yet it increases in girth. Why and how ?

A.

B.

C.

D.

Answer:



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Ncert File Solved Ncert Exemplar Problems D Long Answer Type Questions

1. The arrangement of ovules within the ovary is known as placentation. What does the term placenta refer to ? Draw various types of placentations in the flower as seen TS and VS

A.

B.

C.

D.

Answer:



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2. Deciduous plants shed their leaves during hot summer of in autumn. This process of shedding of leaves is called abscission. Apart from physiological changes what anatomical mechanism is involved in the abscission of leaves.

A.

B.

C.

D.

Answer:



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3. Is Pinus an evergreen tree ? Comment.

A.

B.

C.

D.

Answer:



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4. Each of the following terms has some anatomical significance. What do these terms mean ? Explain with

the help of line diagrams

(a) Plasmadesmoses/Plasmodesmata

(b) Middle lamella

(c) Secondary wall

A.

B.

C.

D.

Answer:



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5. Distinguish between the following

(a) Exarch and endarch condition of protoxylem

(b) Stele and vascular bundle

(c) Protoxylem and metaxylem

(d) Interfascicular cambium and intrafascicular cambium

(e) Open and closed vascular bundles

(f) Stem hair and root hair.

A.

B.

C.

D.

Answer:



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Hots Very Short Answer Questions One Mark Each

1. Name any two lateral meristems in plants.

A.

B.

C.

D.

Answer:



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2. Why xylem vessels are called syncytes ?

A.

B.

C.

D.

Answer:



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3. Write about the chemical composition of collenchyma cells.

A.

B.

C.

D.

Answer:



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4. What are fibres ?

A.

B.

C.

D.

Answer:



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5. What are sclereids ?

A.

B.

C.

D.

Answer:



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6. From which part of the plant coir and hemp are obtained ?

A.

B.

C.

D.

Answer:



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7. Why the colour of heart wood is dark ?

A.

B.

C.

D.

Answer:



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8. Mention the constituents of periderm.

A.

B.

C.

D.

Answer:



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Hots Short Answer Questions Two Marks Each

1. Write the functions of phellogen and phelloderm.

A.

B.

C.

D.

Answer:



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2. Why the root apical meristem is sub-terminal ?

What is its location ?

A.

B.

C.

D.

Answer:



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3. Classify vascular bundles on the basis of position of protoxylum.

A.

B.

C.

D.

Answer:



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4. Write characteristics of shoot apex.

A.

B.

C.

D.

Answer:



View Text Solution

5. Define open vascular bundle

A.

B.

C.

D.

Answer:



Watch Video Solution

6. Write and two characteristics of collenchyma.

A.

B.

C.

D.

Answer:



Watch Video Solution

7. Define aerenchyma.

A.

B.

C.

D.

Answer:



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8. What is pro-meristem ?

A.

B.

C.

D.

Answer:



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Hots Short Answer Questions Three Marks Each

1. What are the characteristics of Krenz anatomy ?

A.

B.

C.

D.

Answer:



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2. How an annual ring is formed ?

A.

B.

C.

D.

Answer:



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3. Define the terms : (i) alburnum (ii) duramen.

A.

B.

C.

D.

Answer:



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4. What are sieve elements ? Why is the septum between two sieve tube elements called sieve plate ?

A.

B.

C.

D.

Answer:



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5. Distinguish between monocot root and dicot root.

A.

B.

C.

D.

Answer:



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6. Distinguish between monocot stem and dicot stem.

A.

B.

C.

D.

Answer:



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7. Classify meristem on the basis of origin.

A.

B.

C.

D.

Answer:



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Hots Long Answer Questions Five Marks Each

1. Describe the internal structure of a dorsiventral leaf with the help of labelled diagrams.

A.

B.

C.

D.

Answer:



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2. चित्रों की सहायता से काष्ठीय एंजियोस्पर्म के तने में द्वितीयक वृद्धि के प्रक्रम का वर्णन करो। इसकी क्या सार्थकता है?

A.

B.

C.

D.

Answer:



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3. Differentiate between sapwood and heartwood.

A.

B.

C.

D.

Answer:



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Quick Memory Test A Say True Or False Write True Or False

1. Aerenchyma is a specialised parenchyma occurring in aquatic plants.

A.

B.

C.

D.

Answer: True



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2. Sieve cells are most commonly found in the lower vascular plants.

A.

B.

C.

D.

Answer: True



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3. A vascular bundle which lacks cambium is called

A.

B.

C.

D.

Answer: True



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4. In *Aristolochia* anomalous secondary growth is present

A.

B.

C.

D.

Answer: True



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5. If a sign was nailed in the trunk of the tree six feet above the ground eight years back, the height of this sign will remain at same point, although the tree grows every year by 40 cms.

A.

B.

C.

D.

Answer: True



View Text Solution

6. In quiescent centre cells are active.

A.

B.

C.

D.

Answer: False



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7. Root cap is formed from calyptrogen in monocots.

A.

B.

C.

D.

Answer: True



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8. Intercalary meristem is present at tip of branches.

A.

B.

C.

D.

Answer: False



View Text Solution

9. In stem branches arise endogenously.

A.

B.

C.

D.

Answer: False



[View Text Solution](#)

10. Shoot apex changes its activity in reproductive phase.

A.

B.

C.

D.

Answer: True



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11. Parenchyma is complex permanent tissue.

A.

B.

C.

D.

Answer: False



View Text Solution

12. Sclerenchyma is a simple supportive tissue of highly thick walled cells.

A.

B.

C.

D.

Answer: True



View Text Solution

13. In conjoint vascular bundles, xylem and phloem are present separately.

A.

B.

C.

D.

Answer: False



View Text Solution

14. Root hair are multicellular.

A.

B.

C.

D.

Answer: False



View Text Solution

15. Mesophyll is differentiated into palisade and spongy parenchyma in adaptation to

A.

B.

C.

D.

Answer: True



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16. In bicollateral vascular bundles, phloem and cambium are present on one side.

A.

B.

C.

D.

Answer: False



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17. In closed vascular bundle, cambium is present.

A.

B.

C.

D.

Answer: False



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18. Sap wood is meant for conduction of sap.

A.

B.

C.

D.

Answer: True



View Text Solution

19. Casparian strips are present in the pericycle.

A.

B.

C.

D.

Answer: False



View Text Solution

20. Pith is present in monocot root.

A.

B.

C.

D.

Answer: True



View Text Solution

21. Stoma is surrounded by kidney shaped guard cells in monocots.

A.

B.

C.

D.

Answer: False



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22. Lysigenous cavity is present in monocot stem.

A.

B.

C.

D.

Answer: True



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23. Age of a tree can be known by counting its annual rings.

A.

B.

C.

D.

Answer: True



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24. Phellogen is primary cambium.

A.

B.

C.

D.

Answer: False



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25. The vascular strand which goes to leaf is called leaf trace.

A.

B.

C.

D.

Answer: True



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Quick Memory Test B Complete The Missing Links Fill In The Following Sentences With Suitable Words

1. Protoderm gives rise to

A.

B.

C.

D.

Answer: epidermis



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2. Examples of secondary meristem are cork cambium and cambium.

A.

B.

C.

D.

Answer: interfascicular cambium



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3. In radial vascular bundles, xylem and phloem patches occur in patches.

A.

B.

C.

D.

Answer: alternate



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4. Pith is large and well developed in root

.

A.

B.

C.

D.

Answer: monocot



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5. Exarch type of is found in roots.

A.

B.

C.

D.

Answer: xylem



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6. Intercellular spaces are present in the cells of the of dicot root.

A.

B.

C.

D.

Answer: cortex



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7. Pith is small or absent in roots.

A.

B.

C.

D.

Answer: monocot



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8. Vessels are present in

A.

B.

C.

D.

Answer: angiosperms



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9. In tracheids, thickening material is deposited in the form of rings.

A.

B.

C.

D.

Answer: annular



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10. Radical vascular bundles are found in :-

A.

B.

C.

D.

Answer: roots



Watch Video Solution

11. In type of bundle, in between xylem and phloem intrafascicular cambium is present .

A.

B.

C.

D.

Answer: open



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12. Xylem in roots is

A.

B.

C.

D.

Answer: exarch



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13. In dicot stem vessels are

A.

B.

C.

D.

Answer: polygonal



Watch Video Solution

14. Vascular bundle in monocot stem is surrounded by sheath.

A.

B.

C.

D.

Answer: sclerenchymatous



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15. Heart wood is dark in colour.

A.

B.

C.

D.

Answer: brown



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Quick Memory Test C Choose The Correct Alternative

1. Sap wood/Heart wood is dark brown in colour.

A.

B.

C.

D.

Answer: Heart wood



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2. Pith in dicot root/monocot root is often absent.

A.

B.

C.

D.

Answer: Dicot root



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3. Interfascicular cambium is primary/secondary meristem.

A.

B.

C.

D.

Answer: Secondary



View Text Solution

4. Secondary growth does not occur in monocot/dicot stem.

A.

B.

C.

D.

Answer: Monocot



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5. A tracheid/vessel consists of row of cells placed one above the another.

A.

B.

C.

D.

Answer: Vessel



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6. Xylem and phloem lie together on same radius in collateral/radical type of vascular tissue system.

A.

B.

C.

D.

Answer: Collateral



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7. Fibres/sclereids are short, broad and occur individually or in small groups.

A.

B.

C.

D.

Answer: Sclereids.



Watch Video Solution

Revision Exercises Very Short Answer Questions

1. Name the cavity found in the vascular bundles of monocot stems.

A.

B.

C.

D.

Answer: Lysigenous cavity



Watch Video Solution

2. Name the substance of which cuticle of leaf is made up of ?

A.

B.

C.

D.

Answer: Cutin



Watch Video Solution

3. From where do the secondary meristems appear ?

A.

B.

C.

D.

Answer: From permanent tissues



Watch Video Solution

4. Name the tissue which acts like a sponge in hydroscopic roots.

A.

B.

C.

D.

Answer: Velamen



Watch Video Solution

5. In which stem the vascular bundles are arranged in a ring?

A.

B.

C.

D.

Answer: Dicot stem



Watch Video Solution

6. Which types of meristems can be classified on the basis of position in the plant body ?

A.

B.

C.

D.

Answer: Apical, intercalary and lateral



Watch Video Solution

7. In which type of vascular bundle, xylem is covered on both side by phloem?

A.

B.

C.

D.

Answer: Mesarch.



Watch Video Solution

8. Name two specialised kinds of parenchyma.

A.

B.

C.

D.

Answer: Aerenchyma and chlorenchyma



Watch Video Solution

9. Name the tissue represented by the jute fibres used in making ropes.

A.

B.

C.

D.

Answer: Phloem fibres



Watch Video Solution

10. Which one out of root or stem shows endarch arrangement of xylem ? What is meant by endarch arrangement

A.

B.

C.

D.

Answer:



Watch Video Solution

11. Name the two types of sieve elements found in phloem.

A.

B.

C.

D.

Answer: Sieve tubes and sieve cells



Watch Video Solution

12. Name the tissue which provides mechanical strength to the plant organs.

A.

B.

C.

D.

Answer: Sclerenchyma and xylem



Watch Video Solution

13. What makes the roots apical meristem subterminal.

A.

B.

C.

D.

Answer:



Watch Video Solution

14. Where are companion cells located in flowering plants ? What is their function ?

A.

B.

C.

D.

Answer:



Watch Video Solution

15. Write two functions of casparian strips in plant roots

A.

B.

C.

D.

Answer:



View Text Solution

16. What is the advantage of lignocellulose in wall of xylem ?

A.

B.

C.

D.

Answer:



View Text Solution

17. What is hard wood ?

A.

B.

C.

D.

Answer: Angiospermic wood.



View Text Solution

18. A cross section of a plant material shows the following features under the microscope. There are many vascular bundles scattered in the

parenchymatous tissue. Xylem is endarch. What kind of plant part shows the above anatomy.

A.

B.

C.

D.

Answer: Monocot stem



Watch Video Solution

19. Name two examples of fruits having sclereids.

A.

B.

C.

D.

Answer: Mango and tomato



Watch Video Solution

20. What use are phloem fibres put to ?

A.

B.

C.

D.

Answer:



Watch Video Solution

21. A cross section of a plant material shows the following features under the microscope : vascular bundles are radially arranged . These are four xylem strands showing exarch condition. What is this plant part?

A.

B.

C.

D.

Answer: Dicot root



Watch Video Solution

22. What category of a permanent plant cell is companion cell

A.

B.

C.

D.

Answer:



Watch Video Solution

23. The cross-section of a plant material showed the following features when viewed under the microscope

(a) The vascular bundles were radially arranged

(b) Four xylem strands with extrach condition of protoxylem. To which organ should it be assigned ?

A.

B.

C.

D.

Answer: Dicot root.



Watch Video Solution

24. The tissues involved in secondary growth of dicot plants are vascular cambium and

A.

B.

C.

D.

Answer: Cork cambium.



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Revision Exercises Short Answer Questions

1. Based on position, classify various types of meristems.

A.

B.

C.

D.

Answer:



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2. Sieve tubes in angiosperms are associated with specialised parenchyma cells. Name those cells. How do they help sieve tube members.

A.

B.

C.

D.

Answer:



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3. Name the various component cells of xylem. Which of them does not have a nucleus ?

A.

B.

C.

D.

Answer:



View Text Solution

4. How are exarch and endarch conditions different anatomically in stem and root ?

A.

B.

C.

D.

Answer:



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5. How is it advantageous for an organism to be made of different kinds of cells instead of one kind?

A.

B.

C.

D.

Answer:



[View Text Solution](#)

6. Give any four examples of secondary meristem.

A.

B.

C.

D.

Answer:



View Text Solution

7. What are sclereids ?

A.

B.

C.

D.

Answer:



View Text Solution

8. If one debarks a tree, what parts of the plant is being removed ?

A.

B.

C.

D.

Answer:



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9. Form which part of the plant fibers are obtained :

(a) Hemp (b) Cotton (c) Jute

A.

B.

C.

D.

Answer:



View Text Solution

10. Palm is a monocotyledonous plant, yet it increases in girth. Why and how ?

A.

B.

C.

D.

Answer:



Watch Video Solution

11. Compare the formation of vascular cambia in dicot stem and dicot root.

A.

B.

C.

D.

Answer:



View Text Solution

12. (a) Differentiate between meristematic and permanent tissues in plants.

(b) Define the process of differentiation

(c) Name any two simple and two complex permanent tissues in plants.

A.

B.

C.

D.

Answer:



Watch Video Solution

13. Give two functions of collenchyma.

A.

B.

C.

D.

Answer:



Watch Video Solution

14. Name the tissue which provides mechanical strength to the plant organs.

A.

B.

C.

D.

Answer:



Watch Video Solution

15. What is an annual ring ?

A.

B.

C.

D.

Answer:



Watch Video Solution

16. The cross-section of a plant material showed the following features when viewed under the microscope

(a) The vascular bundles were radially arranged

(b) Four xylem strands with extrach condition of protoxylem. To which organ should it be assigned ?

A.

B.

C.

D.

Answer:



Watch Video Solution

17. Name the tissue represented by the jute fibres used in making ropes.

A.

B.

C.

D.

Answer:



Watch Video Solution

18. Indicate the location of cambium in a dicot stem.

A.

B.

C.

D.

Answer:



Watch Video Solution

19. Why are a large number of stomata are present at the lower surface of the dicotyledonous leaves in the terrestrial plants ?

A.

B.

C.

D.

Answer:



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20. Draw a neatly labelled diagram of L.S. of phloem and explain briefly.

A.

B.

C.

D.

Answer:



Watch Video Solution

21. Draw well labelled diagram showing T.S. of dicot root.

A.

B.

C.

D.

Answer:



Watch Video Solution

 Watch Video Solution

22. Describe the vascular bundle of a monocot root.

A.

B.

C.

D.

Answer:



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1. Mention two differences in the vascular bundles of sunflower and maize stems.

A.

B.

C.

D.

Answer:



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2. What is collenchyma ? Explain its structure and function in plant body of a herbaceous

A.

B.

C.

D.

Answer:



Watch Video Solution

3. Describe the anatomical features of a monocotyledonous stem.

A.

B.

C.

D.

Answer:



Watch Video Solution

4. Describe the process of secondary growth in a dicot stem

A.

B.

C.

D.

Answer:



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Competition File Objective Type Questions A Multiple Choice Questions Mcqs

1. Aerenchyma is present in which of the following plants?

I. Neptunia

II. Potamogeton

III. Bryophyllum

IV. Vallisneria

A. 1, 2 and 3 are correct

B. 1 and 2 are correct

C. 2 and 4 are correct

D. 1 and 3 are correct

Answer: C



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2. Tyloses thickenings are seen in

A. Collenchyma

B. Phloem cells

C. Ray parenchyma only

D. Ray parenchyma and xylem cells

Answer: D

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3. 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

Answer: C



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4. A meristematic region present between xylem and phloem of open vascular bundle is called :

A. Medullary ray

B. Pericycle

C. Pith

D. Intrafascicular cambium

Answer: D



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5. Opening in the cork tissue which permit ex-change of gas between atmosphere and internal tissue is called

A. Complementary tissue

B. Periderm

C. Lenticel

D. Bark

Answer: C



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6. Alburnum is also called as :

A. Autumn wood

B. Heart wood

C. Sap wood

D. Spring wood

Answer: C



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7. Which of the following statements is /are true

Uneven thickening of cell wall is characteristic of

sclerenchyma

(B) Periblem forms the cortex of the stem and the root

(C) Tracheids are the chief wate transporting elements in gymnosperms

(D)Companion cell is devoid of nucleous at maturity

(E) The Commercial cork is obtained from *Quercus* suber

A. A and D only

B. B and E only

C. C and D only

D. B, C and E only

Answer: D



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8. The waxy material deposited in the casparian strip of the endodermis is

A. Pectin

B. Suberin

C. Cellulose

D. Lignin

Answer: B



Watch Video Solution

 Watch Video Solution

9. The vascular cambial ring of a dicot stem is

- A. Primary in origin
- B. Secondary in origin
- C. Embryonic in origin
- D. Partly primary and partly secondary in origin

Answer: D



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10. Consider the following statement

(A) In a dicot root, the vascular bundles are collateral and endarch

(B) The inner most layer of cortex in a dicot root is endodermis

(C) In a dicot root, the phloem masses are separated from the xylem by parenchymatous cells that are known as the conjunctive tissue

Of these statement given above

A. A is true, but B and C are false

B. B is true, but A and C are false

C. A is false, but B and C are true

D. C is false, but A and C are true

Answer: C



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11. Which of the following is true ?

- A. Vessels are unicellular and with narrow lumen
- B. Vessels are multicellular and with wide lumen
- C. Tracheids are unicellular and with wide lumen
- D. Tracheids are multicellular and with narrow lumen

Answer: B



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12. In an annual ring, the light coloured part is known as

- A. Early wood
- B. Late wood
- C. Heart wood
- D. Sap wood

Answer: A



Watch Video Solution

13. Jute fibres are obtained from the :

- A. Secondary phloem
- B. Pith
- C. Xylem
- D. Endoderms

Answer: A



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14. The annular and spirally thickened conducting elements generally develop in the protoxylem when the root or stem is

- A. Maturing
- B. Elongating
- C. Widening
- D. Differentiating

Answer: C



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15. In barley stem vascular bundles are

- A. Open and scattered
- B. Closed and scattered
- C. Open and in a ring
- D. Closed and radial

Answer: B



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16. Anatomically fairly old dicotyledonous root is distinguished from the dicotyledonous stem by

- A. Absence of secondary xylem
- B. Absence of secondary phloem
- C. Presence of cortex
- D. Position of protoxylem

Answer: D



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17. Palisade parenchyma is absent in leaves of

- A. Sorghum
- B. Mustard

C. Soybean

D. Gram

Answer: A



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18. Reduction in vascular tissue mechanical tissue and cuticle is characteristic of

A. Xerophytes

B. Mesophytes

C. Epiphytes

D. Hydrophytes

Answer: D



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19. In dicotyledonous roots, the initiation of lateral roots takes place in :

- A. Endodermal cells
- B. Cortical cells
- C. Epidermal cells
- D. Pericycle cells

Answer: D



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20. In grasses, certain adaxial epidermal cells along the veins modify themselves into large empty, colourless cells called

- A. Bulliform cells
- B. Companion cells
- C. Guard cells
- D. Subsidiary cell

Answer: A



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21. Function of companion cells is

- A. Loading of sucrose into sieve elements by passive transport
- B. Loading of sucrose into sieve elements
- C. Providing energy to sieve elements for active transport
- D. Providing water to phloem

Answer: B



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22. Some vascular bundles are described as open because these

A. Possess conjunctive tissue between xylem and phloem

B. Are not surrounded by pericycle

C. Are surrounded by pericycle but not endodermis

D. Are capable of producing secondary xylem and phloem

Answer: D



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23. as compared to a dicot root, a monocot root has

- A. More abundant secondary xylem
- B. Many xylem bundles
- C. Inconspicuous annual rings
- D. Relatively thicker periderm

Answer: B



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24. A dicot plant in which scattered vascular bundles are present in stem is

A. Yucca

B. Peperomia

C. Dolichos

D. Helianthus

Answer: B



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25. The long plants are capable of standing erect due to presence of

A. Sclerenchyma

B. Collenchyma

C. Parenchyma

D. Prosenchyma

Answer: A



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26. Which of the following contributes the most to water conduction in plants ?

- A. Sieve tubes
- B. Xylem vessels
- C. Trachea
- D. Sieve cells

Answer: B



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27. Radial conduction of water takes place by

A. Vessels

B. Vessels and trachieds

C. Phloem

D. Ray parenchyma cells

Answer: C



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28. The plant tissues commonly found in fruit walls of nuts and pulp of some fruits like guava are termed as

Or

pear fruits are gritty due to the presence of

Or

Tissue composed of non-parenchymatous cells and have isodiametric or irregular shape is called

- A. Tracheids
- B. Vessels
- C. Fibres
- D. Sclereids

Answer: D



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29. Tracheids differ from other tracheary elements in

A. Having casparian strips

B. Being imperforate

C. Lacking nucleus

D. Being lignified.

Answer: B



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30. Centrifugal development of xylem occurs in :

A. Stem

B. Root

C. Leaf

D. Flower

Answer: A



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31. The term bark refers to :

A. Primary and secondary Xylem only

B. Periderm only

C. Cork, cork cambium, cortex, secondary phloem

D. Secondary xylem and cambium only

Answer: C



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32. Epidermis is derived from

A. Ground meristem

B. Phellogen

C. Procambium

D. Protoderm

Answer: D



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33. A simple living permanent tissue absent in roots is

:

A. Collenchyma

B. Chlorenchyma

C. Parenchyma

D. Aerenchyma

Answer: A



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34. What anatomical structure will you use to distinguish between old dicot stem and old dicot root?

A. Secondary phloem

B. Protoxylem

C. Cortical cells

D. Secondary xylem

Answer: B



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35. Closed vascular bundles lack

- A. Cambium
- B. Pith
- C. Ground tissue
- D. Conjunctive tissue

Answer: A



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36. Read the different components from (A) to (D) in the list given below and tell the correct order of the

components with reference to their arrangement
from outer side to inner side in a woody dicot stem

(A) Secondary cortex , (B) Wood

(C) Secondary phloem , (D) Phellem

A. (iv), (i), (iii), (ii)

B. (iv), (iii), (i), (ii)

C. (iii), (iv), (ii), (i)

D. (i), (ii), (iv), (iii)

Answer: A



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37. Cortex is the region found between

- A. Epidermis and stele
- B. Pericycle and endodermis
- C. Endodermis and pith
- D. Endodermis and vascular bundle

Answer: A



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38. Conifers are adapted to tolerate extreme environmental conditions because of

A. Broad haedy leaves

B. Superficial stomata

C. Thick cuticle

D. Hemicellulose

Answer: C



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39. One of the major components of cell wall of most fungi is

A. Chitin

B. Peptidoglycan

C. Cellulose

D. Presence of vessels

Answer: B



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40. Specialised epidermal cells surrounding the guard cells are called

A. Complimentary cells

B. Subsidiary cells

C. Bulliform cells

D. Lenticels

Answer: B



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41. Which of the following is made up of dead cells

A. Collenchyma

B. Phellem

C. Phloem

D. Xylem parenchyma

Answer: B



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42. Secondary xylem and phloem in dicot stem are produced by

- A. Vascular cambium
- B. Phellogen
- C. Apical meristems
- D. Axillary meristems

Answer: A



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43. Plants having little or no secondary growth are

- A. Deciduous angiosperms
- B. Conifers
- C. Grasses
- D. Cycads

Answer: C

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Competition File B Cbse Pmt Main Examination
Questions 1 Fill In The Blanks With The Suitable Words
Out Of The Followings Primary Apical Intercalary Lateral
Pond Tree Xylem Secondary Phloem Pericycle
Endodermal Forest Deser

1. In prisere, in aquatic medium like the pioneer plants are

A.

B.

C.

D.

Answer: Pond, phytoplanktons

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2. growth is increase in girth. It is caused by
..... cells.

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3. Transport of water from cortex to is
controlled by cells.

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4. Maize and are monoecious plants is not possible but is possible.



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5. Micro-organism like acts as a pesticide, while acts as a biofertilizer.



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Competition File D Assertion Type Questions

1. Assertion. Vessels are made up of row of cells placed one above the another with their intervening walls (septa) absent due to dissolution.

Reason. Sieve tubes are tubular channels. In tracheids walls are thick.

A. If both Assertion and Reason are true and the

Reason is a correct explanation of the Assertion.

B. If both Assertion and Reason are true but

Reason is not a correct explanation of the

Assertion.

C. If Assertion is true but the Reason is false.

D. If both Assertion and Reason are false.

Answer: B



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2. Assertion. There is large deposition of lignin in the lumen of tracheids.

Reason. The lumen of tracheids is narrow.

A. If both Assertion and Reason are true and the Reason is a correct explanation of the Assertion.

B. If both Assertion and Reason are true but Reason is not a correct explanation of the Assertion.

C. If Assertion is true but the Reason is false.

D. If both Assertion and Reason are false.

Answer: A



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3. Assertion. Collateral bundles are found in stem dicotyledons and gymnosperms.

Reason. Protoxylem and protophloem are located on separate radii.

A. If both Assertion and Reason are true and the

Reason is a correct explanation of the Assertion.

B. If both Assertion and Reason are true but Reason is not a correct explanation of the Assertion.

C. If Assertion is true but the Reason is false.

D. If both Assertion and Reason are false.

Answer: C

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4. Assertion. In dicot stem, vascular bundles are of open type.

Reason. Dicot stem bears cambium in the vascular bundles.

A. If both Assertion and Reason are true and the Reason is a correct explanation of the Assertion.

B. If both Assertion and Reason are true but Reason is not a correct explanation of the Assertion.

C. If Assertion is true but the Reason is false.

D. If both Assertion and Reason are false.

Answer: A



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5. Assertion. In monocot stem, vascular bundle are arrangement in a ring.

Reason. Stele is of dictyostele type.

A. If both Assertion and Reason are true and the

Reason is a correct explanation of the Assertion.

B. If both Assertion and Reason are true but

Reason is not a correct explanation of the

Assertion.

C. If Assertion is true but the Reason is false.

D. If both Assertion and Reason are false.

Answer: D



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6. Assertion. Secondary xylem formed during spring is called spring wood and secondary xylem formed in autumn is called autumn wood.

Reason . Spring wood and autumn wood is easily demarcated and leads to the formation of annual rings.

A. If both Assertion and Reason are true and the

Reason is a correct explanation of the Assertion.

B. If both Assertion and Reason are true but

Reason is not a correct explanation of the

Assertion.

C. If Assertion is true but the Reason is false.

D. If both Assertion and Reason are false.

Answer: A



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7. Assertion. Quiescent centre is located in root-apex.

Reason. Cells are highly lignified and are dead.

A. If both Assertion and Reason are true and the

Reason is a correct explanation of the Assertion.

B. If both Assertion and Reason are true but Reason is not a correct explanation of the Assertion.

C. If Assertion is true but the Reason is false.

D. If both Assertion and Reason are false.

Answer: C



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8. Assertion. In bark all the cells are dead.

Reason. Bark constitutes secondary cortex, epidermis, cork etc.

- A. If both Assertion and Reason are true and the Reason is a correct explanation of the Assertion.
- B. If both Assertion and Reason are true but Reason is not a correct explanation of the Assertion.
- C. If Assertion is true but the Reason is false.
- D. If both Assertion and Reason are false.

Answer: C



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9. Assertion. Vascular cambium is considered as lateral meristem.

Reason. It gives rise to lateral shoots.

A. If both Assertion and Reason are true and the Reason is a correct explanation of the Assertion.

B. If both Assertion and Reason are true but Reason is not a correct explanation of the Assertion.

C. If Assertion is true but the Reason is false.

D. If both Assertion and Reason are false.

Answer: C



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10. Assertion: The quiescent centre acts as a reservoir of relatively resistant cells, which constitute a permanent source of active initials.

Reason: The cells of the inactive region of quiescent centre become active, when the previous active initials get damaged.

A. If both Assertion and Reason are true and the

Reason is a correct explanation of the Assertion.

B. If both Assertion and Reason are true but

Reason is not a correct explanation of the

Assertion.

C. If Assertion is true but the Reason is false.

D. If both Assertion and Reason are false.

Answer: A



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11. Assertion : In collateral vascular bundles phloem is situated toward inner side.

Reason : In monocot stem, cambium is present .

A. If both Assertion and Reason are true and the

Reason is a correct explanation of the Assertion.

B. If both Assertion and Reason are true but Reason is not a correct explanation of the Assertion.

C. If Assertion is true but the Reason is false.

D. If both Assertion and Reason are false.

Answer: D



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Competition File E Reasoning Type Questions Give Reason For The Following

1. In pteridophytes, one cell constitute the meristem.

A.

B.

C.

D.

Answer:



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2. Primary meristems persist throughout the life.

A.

B.

C.

D.

Answer:



View Text Solution

3. Chlorenchyma is a type of parenchyma.

A.

B.

C.

D.

Answer:



View Text Solution

4. Sclerenchyma fibres and sclereids are both types of sclerenchyma.

A.

B.

C.

D.

Answer:



View Text Solution

5. In monocot roots and dicot roots, protoxylem lies towards inside of metaxylem.

A.

B.

C.

D.

Answer:



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Competition File E Additional Multiple Choice Questions

Choose The Correct Answer

1. Intercalary meristem results in

- A. Secondary growth
- B. Primary growth
- C. Apical growth
- D. Secondary thickening

Answer: B



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2. Vascular bundles are closed when they

A. Cambium present

B. Cambium absent

C. Pericycle absent

D. None of these

Answer: B



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3. In dicot stem, vascular bundles are

- A. Numerous scattered
- B. Arranged in a ring
- C. Without cambium
- D. Surrounded by bundle sheath

Answer: B



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4. Apical stem of shoot apex is :

- A. Intercalary meristem
- B. Lateral meristem

C. Primary meristem

D. Secondary meristem

Answer: C



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5. Which of the following is not a character of meristematic tissue ?

A. Presence of prominent nucleus

B. Presence of intercellular spaces

C. Absence of vacuole

D. Proplastid present

Answer: B



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6. Which is living mechanical tissue ?

A. Phloem

B. Parenchyma

C. Collenchyma

D. Sclerenchyma

Answer: C



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7. Periderm is formed from -

A. Phellem

B. Phelloderm

C. Phellogen

D. All of these

Answer: C



[Watch Video Solution](#)

8. In a woody dicotyledonous tree, which of the following parts will mainly consist of primary tissues

- A. All parts
- B. Stem and root
- C. Flowers, fruits and leaves
- D. Shoot tip and root tip

Answer: D



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9. fascicular , interfascicular and extra-fascicular cambium together constitute

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

Answer: D



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10. Intercalary meristem is located in :

A. Petiole and internode

B. Stem tip

C. Root

D. Bud

Answer: A



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11. The cells which help in rolling and unrolling of leaf lamina in grasses are :

A. Complementary cells

B. Motor cells

C. Passage cells

D. Companion cells

Answer: B



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12. Vascular bundles having phloem on the periphery

of both outer and inner cambium are

A. Bicollateral open vascular bundles

B. Bicollateral, conjoint closed vascular bundles

C. Amphivasal, conjoint closed vascular bundles

D. Collateral, radial , open vascular bundles

Answer: A



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13. Epiblema is characteristic of

A. Monocot roots

B. Dicot stems

C. Dicot roots

D. Monocot stems

Answer: A



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14. Which one of the following statements pertaining to plant structure is correct

A. Cork lacks stomata, but lenticels carry out transpiration

B. Passage cells help in transfer of food from cortex to phloem

C. Sieve tube elements possess cytoplasm but no nuclei

D. The shoot apical meristem has a quiescent centre

Answer: C



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15. Cork tissue arises from

A. Periderm

B. Phellogen

C. Phelloderm

D. Phellem

Answer: B



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16. inner darker, harden portion of secondary xylem that cannot conduct water in older dicot stem is called

A. Alburnum

B. Bast

C. Wood

D. Duramen

Answer: D



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17. what differentiates a dicot leaf from monocot leaf

A. Parallel venation

B. Differentiation of palisade and spongy
parenchyma

C. Stomata only on upper side

D. Stomata on both sides

Answer: B



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18. Which of the following statement is true ?

- A. Vessels are multicellular and with wide lumen
- B. Tracheids are multicellular and with narrow lumen
- C. Vessels are unicellular and with narrow lumen
- D. Tracheids are unicellular and with wide lumen

Answer: A



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19. Rod shaped elongated thick walled lignified dead cells found in seed coat of pulse legumes are

- A. Macrosclereids
- B. Astrosclereids
- C. Branchysclereids
- D. Osteosclereids

Answer: A



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20. dicot root having more than six vascular bundles is

A. Pea

B. Sunflower

C. Ficus

D. Ranunculus

Answer: C



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Chapter Practice Test

1. Why cambium is considered as lateral meristem?

A.

B.

C.

D.

Answer:



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2. What is the function of a companion cell ?

A.

B.

C.

D.

Answer:



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3. Define calyptrogens.

A.

B.

C.

D.

Answer:



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4. What are the cells that make the leaves curl in plants during water stress ?

A.

B.

C.

D.

Answer:



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5. Why the endodermis in dicot stem is called starch sheath ?

A.

B.

C.

D.

Answer:



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6. How does cambial ring is formed in dicot stem ?

A.

B.

C.

D.

Answer:



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7. List out the functions of ground tissue system.

A.

B.

C.

D.

Answer:



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8. Differentiate between periderm and bark.

A.

B.

C.

D.

Answer:



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9. How annual rings are formed ?

A.

B.

C.

D.

Answer:



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10. How is the study of plant anatomy useful to us?

A.

B.

C.

D.

Answer:



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