BIOLOGY

BOOKS - BAL BHARTI

PLANT TISSUES AND ANATOMY

Exercise Choose The Correct Option

1. Location or position of meristematic regions is divided into.....types.

A. one

B. two

C. three

D. none of the above

Answer:

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2. Cambium is also called..... .

A. apical meristem

B. intercalary meristem

C. lateral meristem

D. none of the above

Answer:

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3. Collenchyma is a type of.....tissue.

A. living

B. dead

C. living and dead

D. none of the above

Answer:

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4. .....is a complex permanent tissue.

A. Parenchyma

B. Sclerenchyma

C. Chlorenchyma

D. Xylem

Answer:

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5. Mesophyll tissue is present in..... .

A. root

B. stem

C. leaf

D. flower

Answer:

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Exercise

1. A fresh section was taken by a student but he was very disappointed because there were only few green and most colourless cells. Teacher provided a pink colour solution. The section was immersed in this solution and

when observed it was much clearer. What is the magic?

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2. While observing a section many scattered vascular bundles could be seen. Teacher said but in spite of this large number the stem cannot grow in girth. Why?

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3. A section of the stem had vascular bundles, where tissue was wrapped around the other. How will you technically describe it?

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4. There were two cut logs of wood lying in the campus. One had growth rings and other didn't. Teacher said it is due to differences in their pattern of growth which is dependent on season. How?

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5. While on the trip to Kashmir, Pintoo observed that cut portions of large trees shows distinct rings, which he never found in Maharahtra. Why is so?

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6. A student was observing a slide with no label under microscope. The section had some vascular bundles scattered in the ground

tissue. It is section of a monocot stem! He exclaimed. No! It is section of fern rachis, said the teacher. Teacher told to observe vascular bundle again. Student agreed. Why?

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7. Student found a wooden stopper in lab. He was told by an old lab attendant that it is there for many years. He kept thinking how it did not rot?

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8. Student while observing a slide of leaf section observed many stomata on the upper surface. He thought he has placed slide upside down. Teacher confirmed it is rightly placed. Explain.

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9. Write short notes on the following points.

Structure of stomata.

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10. Write short notes on the following point

Secondary growth

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11. Write short note on pecularity of a sclerenchymatous cell wall.

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12. Draw neat labelled diagram

T. S. of Dicot leaf.

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13. Distinguish between Dicot and Monocot leaf on the basis of following characters.

Characters	Dicot leaf	Monocot leaf
Stomata	.....	.....
Intercellular space	.....	.....
Venation	.....	
Vascular bundle	.....	.....
Mesophyll cells	.....	.....

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Exercise Differentiate

1. Differentiate between Vascular Bundle of Monocot and Vascular Bundle of Dicot.

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2. Differentiate between Xylem functioning and Phloem functioning.

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3. Differentiate between monocots and dicots.

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