

Questions for the final thematic unit on "Vegetative organs of plants"

1. Stem. Definition of the stem. Functions of the stem. Variety of stems on a cross section.
2. anatomical structure of the herbaceous stem of a monocotyledonous plant.
3. Anatomical structure of herbaceous stem of dicotyledonous plant.
4. Differences in anatomical structure of herbaceous stems of monocotyledonous and dicotyledonous plants.
5. Structure of rhizome of monocotyledonous and dicotyledonous plants.
6. Secondary thickening in the stem of dicotyledonous plants. Types of cambium embedding.
7. Anatomical structure of the stem of woody dicotyledonous plants.
8. Anatomical structure of the stem of woody conifers.
9. Differences in anatomical structure of stems of coniferous and woody dicotyledonous plants.
10. Root. Definition and functions. Root zones. Root sheath, its significance and origin.
11. Primary structure of the root.
12. Transition to the secondary structure of the root.
13. Secondary structure of the root of herbaceous plants.
14. Secondary structure of the root of woody plants. Differences from the stem of woody plants.
15. Leaf. Definition and functions. Anatomical structure of leaf.
16. Structure of the leaf of coniferous plants.
17. Types of leaves according to their anatomical structure.
18. The morphology of the vegetative organs of the Cloctosperms:
 - (a) Root. Types of root systems. Modifications of the roots.
 - b) Stem. Arrangement of stems in space. Modifications of the stems.
 - c) Leaf. Principles of leaf classification. Modifications of leaves.
 - d) The shoot. Metamerics of shoots. Branching. Leaf formation. Shortened and elongated shoots.
 - e) Buds. Open and closed buds. Flowering and vegetative buds. Modifications of buds.
19. Distinguishing features of monocotyledonous and dicotyledonous plant classes by morphology of vegetative organs.

List of microforms for the final class

1. Cross-section of pumpkin stem.
2. Cross section of corn stalk.
3. Cross section of cupua stem.

4. Cross-section of the stalk of the pickaxe.
5. Cross section of clover stem.
6. Cross section of the rhizome of the orleaf fern.
7. Cross-section of the rhizome of the lily of the valley.
8. Cross section of a linden branch.
9. Cross section of a pine branch.
10. Cross section of an iris root
11. Cross section of a pumpkin root.
12. Cross section of a linden root.
13. Cross section of a beet root.
14. Cross section of a radish root.
15. Cross section of a camellia leaf.
16. Cross section of an iris leaf.
17. Cross section of a pine needle.