

Lecture 5 - Organization of Cells and Tissues of the Ground Tissue System

Learning Objectives:

By the end of this lecture, you should be able to:

1. Identify the primary meristems that give rise to the three tissue systems in the primary plant body.
2. Explain the levels of organization of plants into: tissue system, tissue type and cell type?
3. Identify the three types of tissues that make up the ground tissue system.
4. Identify three features of parenchyma cells that lead people to call them “WONDER CELLS”. *Are parenchyma cells found only in parenchyma tissue? If not...where else?
5. Explain the functions of parenchyma cells and how they are modified for each of these functions (consider what you have learned in Unit 1).
6. Describe the characteristics and function of collenchyma tissue. How do collenchyma cells differ from cells of the sclerenchyma tissue (fibres and sclereids)?
7. Distinguish between the two cell types that can make up sclerenchyma tissue. Describe similarities between the two cell types.
8. Relate the structure of fibers to their function.

Reading: Chapter 23, pages 510 – 516, Summary table: pages 526-527