



SELF-CHECK

Use the following given words to fill in the blanks:

Lateral	intercalary	apical	meristematic	permanent	cell wall
non-cellulose	cytoplasm	nucleus	vacuole	length	girth

- _____ meristem is found at the tip of the root.
- _____ meristem is found on the sides of the stem.
- _____ meristem is found at the base of the internodes of monocot grasses.
- The plant tissues are classified on the basis of ability to divide into two categories: _____ and _____ tissues.
- Meristems have thin _____, dense _____, no _____ and prominent _____.
- Lateral meristem increases the _____ of the plant body.

Permanent Tissues

These tissues are formed from the meristematic tissues, after they have lost the ability of division and have attained final shape, size and function. This process of taking up a permanent shape, size and function is called **differentiation**.

Characteristics

- They are thin or thick walled and have definite shape, size and function. The nucleus is small with cytoplasm at the periphery of the cell and big vacuole at the centre of the cell.



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