

Vidya Bhawan Balika Vidyapeeth Lakhisarai

Arun Kumar Gupta

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Sub. Biology

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1. Define the term 'tissue'?

A tissue is defined as a cluster of cells which are similar in structure and work together to perform a particular function.

2. How many types of elements together make up the xylem tissue? Name them.

The xylem tissue is made up of four main elements, namely:

- Vessels
- Tracheids
- Xylem fibres
- Xylem parenchyma

3. How are simple tissues different from complex tissues in plants?

The following are the differences:

Simple tissues	Complex tissues
They are made up of a single type of cell that performs only one common function	They are made up of more than one kind of a cell that coordinate to perform one particular function

4. Differentiate between parenchyma, collenchyma and sclerenchyma on the basis of their cell wall.

The following are the differences based on cell wall between different tissues:

Parenchyma	Collenchyma	Sclerenchyma
Cell walls are thin and made up of cellulose	Cell walls are thick at the edges due to the deposition of pectin	Cell walls are thick due to the deposition of lignin

5. What are the functions of the stomata?

Stomata are the tiny pores present on the outer layer of the cells, the epidermis. Stomata bring about the exchange of gases and transpiration.