

Science

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(Chapter - 6) (Tissues) (Exercises)
(Class - IX)

Question 1:

Define the term 'tissue'?

Answer 1:

The group of cells similar in structure that work together to achieve a particular function forms a tissue. This group of cells has a common origin.

Question 2:

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

Answer 2:

Xylem is a complex tissue. It is made up of following four kinds of cells or elements:

- Tracheids
- Vessels
- Xylem parenchyma
- Xylem fibres.

Question 3:

How are simple tissues different from complex tissues in plants?

Answer 3:

Simple tissues are made up of one type of cells which coordinate to perform a common function.

Complex tissues are made up of more than one type of cells. All these coordinate to perform a common function.

Question 4:

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

Answer 4:

The differences between cell walls of parenchyma, collenchyma and sclerenchyma are given in the following table:

Parenchyma	Collenchyma	Sclerenchyma
1. Cell wall is primary 2. Cells have thin walls and made up of cellulose.	1. Cell wall is primary. 2. Cell walls are thickened at the corners due to protein deposition.	1. Cell wall is secondary. 2. Cell wall is very thick due to lignin deposition.

Question 5:

What are the functions of *Stomata*?

Answer 5:

The small pores present in the epidermis of the leaf are stomata. Stomata are enclosed by two kidney shaped cells called guard cells.

Functions of Stomata

- Exchange of gases, particularly CO_2 and O_2 , with atmosphere.
- Loss of water in the form of vapour during transpiration.

Question 6:

Diagrammatically show the difference between the three types of muscle fibres.

Answer 6:



Answers For Biology Science Unit Lesson 02

sir George Christopher T. Bartley



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