

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:



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AI in education AIED with a particular focus on the research practice and technological paradigmatic shifts of AIED in recent years The 23 chapters in this edited collection track the paradigmatic shifts of AIED in STEM education discussing how and why the paradigms have shifted explaining how and in what ways AI techniques have ensured the shifts and envisioning what directions next generation AIED is heading in the new era As a whole the book illuminates the main paradigms of AI in STEM education summarizes the AI enhanced techniques and applications used to enable the paradigms and discusses AI enhanced teaching learning and design in STEM education It provides an adapted educational policy so that practitioners can better facilitate the application of AI in STEM education This book is a must read for researchers educators students designers and engineers who are interested in the opportunities and challenges of AI in STEM education [The School Science Review](#),2004 **Designing and Teaching the Secondary Science Methods Course** Aaron J. Sickel,Stephen B. Witzig,2017-04-13

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