

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 Of Biology Science Unit 07 Lesson

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The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents Artificial Intelligence in STEM Education Fan Ouyang,Pengcheng Jiao,Bruce M. McLaren,Amir H. Alavi,2022-12-29 Artificial intelligence AI opens new opportunities for STEM education in K 12 higher education and professional education contexts This book summarizes 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 **Research in Education** ,1973 **Leader Guide** Duane N. Rice,1982

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