

# Science

(www.tiwariacademy.com)  
(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<br>2. Cells have thin walls and made up of cellulose. | 1. Cell wall is primary.<br>2. Cell walls are thickened at the corners due to protein deposition. | 1. Cell wall is secondary.<br>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  $\text{CO}_2$  and  $\text{O}_2$ , 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

**SJ Ball**



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Harcourt Science: Teacher's ed., life science units A and B, 2005

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*Oxford Smart Activate 2 Teacher Handbook eBook* Jo Locke, Anna Harris, 2024-09-12 Oxford Smart Activate Teacher Book 2 holds high aspirations for all students to succeed building on what they have learned at KS2 and supporting them to progress with confidence to GCSE This Teacher Handbook provides all teachers both subject specialists and non subject specialists with practical suggestions and guidance to reactive knowledge trigger student interest and reflect on their learning and progress Links between topics sciences and the wider KS3 curriculum are clearly established through curriculum narrative documents Informed by up to date educational research and tried and tested by UK Pioneer schools to ensure that every aspect works for all students all teachers and in all secondary science classrooms Oxford Smart Activate is the next evolution of the best selling Activate series from series editor and curriculum expert Andrew Chandler Grevatt

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