



Province of the  
**EASTERN CAPE**  
EDUCATION

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT**  
**(SEN-FET)**

**HOME SCHOOLING SELF-STUDY WORKSHEET 1**

<b>SUBJECT</b>	LIFE SCIENCES	<b>GRADE</b>	10	<b>DATE</b>	09/04
<b>TOPIC</b>	PLANT TISSUES	<b>TERM 1 REVISION</b>	✓	<b>TERM 2 CONTENT</b>	
<b>TIME ALLOCATION</b>	45 MINUTES	<b><u>TIPS TO KEEP HEALTHY</u></b>			
<b>INSTRUCTIONS</b>	Use the following resources to answer the worksheet: <ul style="list-style-type: none"><li>• Textbook</li><li>• Notes provided on plant tissues</li></ul>	1. <b>WASH YOUR HANDS</b> thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%. 2. <b>PRACTICE SOCIAL DISTANCING</b> – keep a distance of 1m away from other people. 3. <b>PRACTISE GOOD RESPIRATORY HYGIENE:</b> cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use. 4. <b>TRY NOT TO TOUCH YOUR FACE.</b> The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick. 5. <b>STAY AT HOME.</b>			

**Activity 1.1:**

<b>1.1</b>	<b>Provide the correct biological terms for each of the following terms</b>		
	1.1.1	The basic unit of life	(1)
	1.1.2	A group of cells with the same structure that perform the same function	(1)
	1.1.3	A plant tissue that consists of undifferentiated cells that are actively dividing	(1)
	1.1.4	Tissues that contain non-dividing cells	(1)
			<b>(4)</b>

**Activity 2: Choose the letter that corresponds to the most correct answer:**

2.1 . What kind of tissue can parenchyma tissue be described as being?

- a) simple tissue
- b) complex tissue
- c) xylem
- d) phloem

2.2 . Which of the following is not a simple tissue?

- a) xylem
- b) parenchyma
- c) collenchyma
- d) sclerenchyma

2.3. What is the key difference between meristematic and permanent tissue?

- a) The ability to conduct photosynthesis
- b) The ability to divide
- c) The ability to move
- d) The complexity to perform a function

2.4 Which type of tissue has lignified walls?

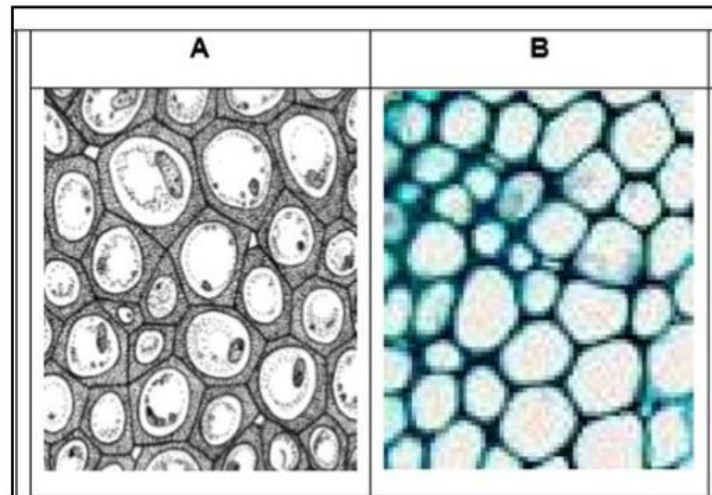
- a) Parenchyma
- b) Collenchyma
- c) Sclerenchyma
- d) Cambium

2.5 Thando was shown two slides of plant tissues: parenchyma and sclerenchyma. Which of the features given below would be crucial in identifying sclerenchyma?

- a) Location of nucleus
- b) Size of cells
- c) Thickness of cell walls
- d) Position of vacuoles

(5 x2) **(10)**

**Activity 3- study the diagrams below and answer the questions that follow**



3.1 Identify tissue A and B

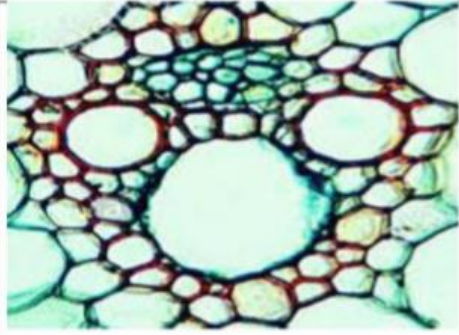
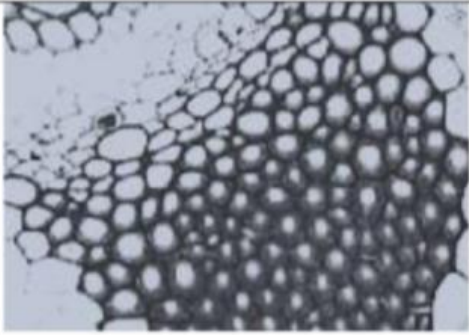
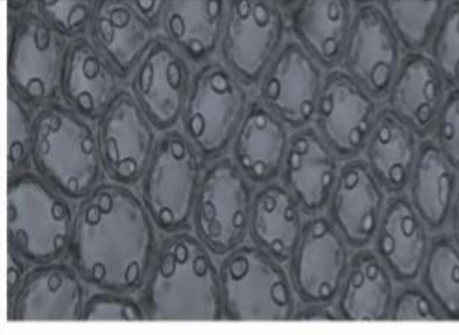
(2)

3.2 Tabulate TWO observable differences between tissue A and B

(5)

**(7)**

**Activity 4 Identify and state the function of each tissue**

<b>A</b>		<b>B</b>	
	<p><i>Tissue name:</i> _____</p>		<p><i>Tissue name:</i> _____</p>
	<p><i>Function:</i> _____</p>		<p><i>Function:</i> _____</p>
	<b>C</b>		
<p><i>Tissue name:</i> _____</p>		<p><i>Tissue name:</i> _____</p>	
	<p><i>Function:</i> _____</p>		<p><i>Function:</i> _____</p>

(4 X 2) (8)

**Activity 5- Fill in the worksheet below**

5.1 Explain the statement 'Tissues exhibit division of labour'. Give examples.

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----- (3)

5.2. Why do plants have more dead tissues compared to animals?

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----- (2)

5.3. List the characteristics of meristematic tissues.

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----- (3)

5.4 What are the key features which allow you to tell that a tissue type is collenchyma?

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----- (2)

5.5. Why do meristematic cells lack vacuoles?

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----- (2)

**(12)**

**[41]**