



Teacher Jeffrey

SPECIALIZED CELL

Biology 5090

Name:Class:

I. Multiple Choice

Instruction: Choose the BEST answer from the choices provided in each number.

1. Which statement is true about the red blood cells.

- A They contain a nucleus.
- B They contain no nucleus.
- C They have a regular shape.
- D They are made up of lignin.

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2. What differentiation is found in the structure of root hair cells to be specialized cells?

- A It has a rectangular shape.
- B It has elongation or protrusion.
- C It has a biconcave shape.
- D It is made up of lignin.

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3. The differentiation in specialized cells like the red blood cell, xylem, and root hair cell increases which property in the choices below.

- 1. Increases the surface area to volume ratio.
- 2. Increases the absorption of substances.
- 3. Decreases the surface area to volume ratio.
- 4. Decreases the absorption of substances.

A 1 and 2 B 1 and 3 C 2 and 3 D 2 and 4

☐

4. Which differentiation describes the xylem vessel?

- A It is made up of lignin.
- B It contains no nucleus.
- C It has elongation or protrusion.
- D It has a biconcave shape.

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5. The absence of a nucleus in red blood cells make them efficient

- A in fighting bacterial infection.
- B in transporting Oxygen to the body cells.
- C in absorbing water and mineral salts.
- D in transporting food to all parts of the body.

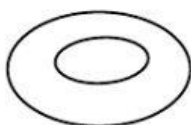
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II. Structured Questions

Instruction. Answer ALL questions.

1. This is a cell.



a(i) Name the specialized cell [1]

(ii) Give its function

.....[1]

(iii) Name the part that is missing.

..... [1]

(iv) Describe the importance of its missing part to its function.

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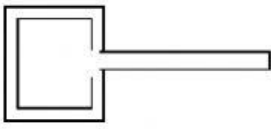
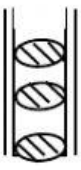
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2. Matching Type

I. Connect the specialized cell to its description.

Specialized cell	Description
Root hair cell	It has no nucleus to have more space for Oxygen
Xylem vessel	It has elongation for better absorption of water and mineral salts
Red Blood Cell	It has lignified wall that serves as a mechanical support

II. Connect the diagram to its corresponding name.

Cell	Diagram
Red blood cell	
Root hair cell	
Xylem vessel	