

## S.1 BIOLOGY END OF TEM ONE 2023 ASSESSMENT EXAM

Name: .....

School: .....

TIME: 1Hour: 30 minutes

Uganda Certificate of Education

Biology Paper 1

### INSTRUCTIONS:

*This paper consists of **four** questions.*

*Answer **all** questions in the spaces provided.*

*Illustrations in form of drawings should be made where necessary, with a sharp pencil*

Table for Examiners use only

Number	Marks	Comment.
1		
2		
3		

1. (a) Madinah's father asked his daughter to get involved actively in biology lessons so that she does not forget the concepts easily, give five reasons why Madinah's father was encouraging his daughter to concentrate in biology (5marks)

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- (b) Aufu carefully cracked an egg and carefully poured out the contents in a clean Flat white plate, after thorough observation, he concluded that it was an animal cell,, give five reasons why Aufu concluded that it was an animal cell (5marks)

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2. (a) How can you convince Hawulah who has just joined senior one at Awtad secondary school and has not yet learnt anything in biology that a human being is a living thing and has life?(5marks)

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(b). Explain why you know and say that cassava is a plant and a cow is an animal (5marks)

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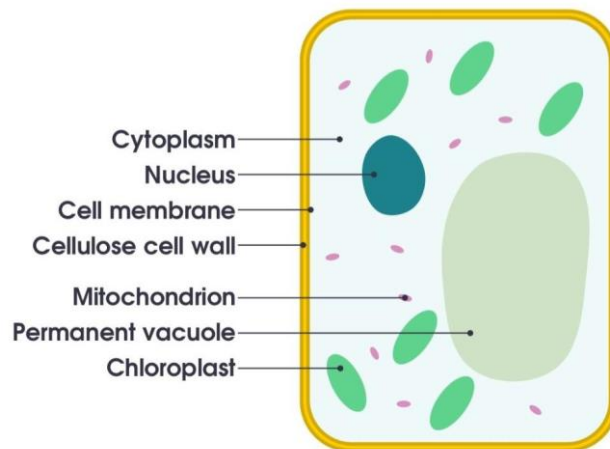
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3. (a) Use the parts of a plant cell above and fill in the spaces in the cell analogy



below. A **cell analogy** compares a cell and its parts to some thing else that is similar to a plant cell. ( 07marks)

**Title of the cell analogy: IF A SCHOOL SETTING IS LIKE A PLANT CELL.**

The hard exterior walls of a school building shield the school from strong weather conditions and external damage like a **cell wall** of a plant cell.

If you are late to school; you may find the doors locked. Doors are like selective openings as..... of a plant cell which only open at certain times to allow in some materials.

In a plant cell; .....operate as school store where some materials may be kept.

The main administration offices function as .....of the plant cell which directs and controls all the activities.

The .....of the plant cell serve as the main school garden where food is manufactured from and the .....of the plant cell serve as the school kitchen ( power house) where students get food energy from. .... is like the pathways and compound of the school where every one travels through and most activities take from.

(b)From the cell analogy in (a); state the function of the following parts of plant

Cell.

(i) Cell wall. ( 01 mark)

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(ii) Mitochondrion. (01 mark)

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(iii) Chloroplasts. (01 mark)

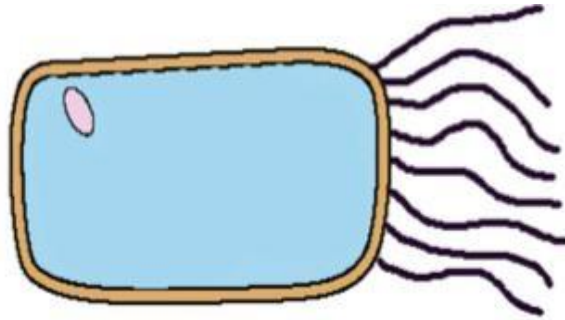
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(C)From the cell analogy in (a); state the adaptation of the cell membrane to its

Function. (01 mark)

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(b)“ *The modifications in structure of specialised human cells are related to their functions* “  
Below is a structure of one of the specialised human cell.



(i) Name the specialised human cell above.

( 01 mark)

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(ii) State how the specialised human cell above is well adapted to its carry

Out its function.

(02 marks)

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