

**S.2 BIOLOGY END OF TEM ONE 2023 ASSESSMENT EXAM**

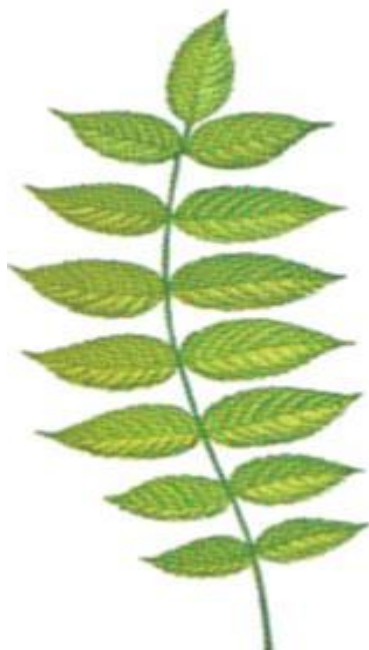
Name: .....

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.
<b>1</b>		
<b>2</b>		

1. (a) Plant leaves are of different types with different kind of features.  
Below are structures of different kind of leaves.



**Leaf P**



**Leaf Q**

- (i) State the type of leaves shown above. (01 mark)  
.....
- (ii) Give reason for your type of leaves shown above. (01 mark)  
.....
- (iii) Name leaf, (02 marks)  
**P** .....  
**Q**.....

- (b) A group of S.2 students collected different kinds of leaves, which they examined; and recorded their observable features as in table below.

Leaf	Lamina	Venation	Margin	Stalk
<b>R</b>	Undivided.	Network	Serrated	Petiole
<b>S</b>	Divided	Network	Serrated	Petiole
<b>T</b>	Undivided	Pallarel	Entire	Sheath
<b>W</b>	Undivided	Network	Entire	Petiole

- (i) Construct a dichotomous key to classify all the leaf specimens  
In the table. (03 marks)

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- (ii) State any two primary functions of leaves to plants. ( 02 marks)

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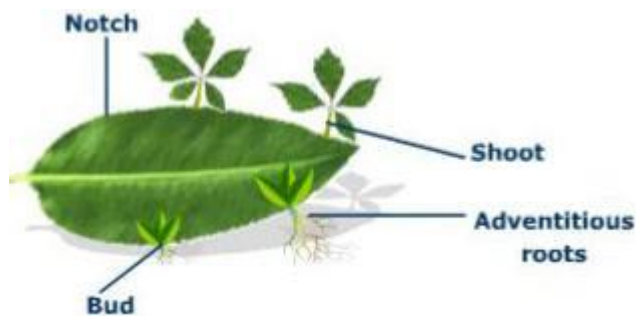
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- (c) Below is a structure of a bryophyllum leaf. Study it and answer the Questions that follow.



- (i) State the function of the bryophyllum leaf as shown above.( 01 mark)

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- (ii) From the structure above; give a reason to support your answer in (i)  
( 02 marks)

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2. While studying features of some insects; a group of S.2 students downloaded the diagram of a cockroach and printed it out; which they used to identify the features of external parts of a cockroach. Study the diagram and answer the questions that follow.



- (a) From the diagram ;briefly describe the,

(i) Antenna of the cockroach. (02 marks)

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(ii)Fore limbs of the cockroach. (02 marks)

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(b) Using observable features; suggest why cockroaches live a successful life.  
( 03 marks)

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(c) State one way in each case how cockroaches are useful and harmful in life.

( i) How they are useful. ( 01 mark)

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(ii)How they are harmful. ( 01 mark)

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(d) Suggest one way how the dangers of cockroaches can be controlled in our homes. ( 01 mark)

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