

BIOLOGY

SENIOR THREE SET 1

1 hour 30 minutes

Index No.

INSTRUCTION: All questions are compulsory

Candidate's Name.....

Candidate's Signature

School Random Number

District Random Number

Read the following instructions carefully:

1. The paper has two Items
2. All answers to sets must be written in the spaces provided
3. All answers must be written in blue or black ball point pen or ink. Diagrams should be drawn in a pencil
4. Unnecessary changes in your work may lead to loss of marks
5. All handwriting that cannot be easily read may lead to loss of marks

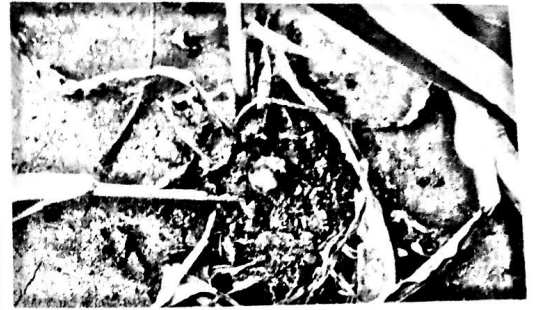
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SCORES	
Item No.1	
Item No.2	
Item No.3	
TOTAL	

1. Mr. Waiswa, a farmer in Nawaikoke, grows maize and groundnuts. He also keeps cattle and free-range chicken. He is however troubled by pests which include ticks, squirrels and termites.


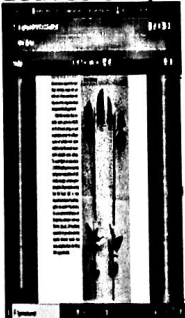
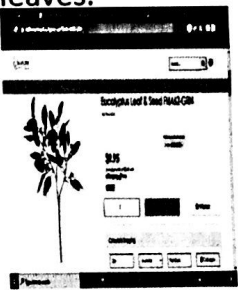


He is planning to use a strong pesticide that kills all microorganisms, all invertebrates, small vertebrates and causes respiratory disorders to large vertebrates. He plans to spray the pesticide on the whole farm.

Do you agree with Mr. Waiswa?

Give reasons why?

2. Jane, Sarah and Hadija own road side tree nurseries and each of them propagates eucalyptus trees from stems. They make cuttings from the same plants the same way, use the same soil to plant the cuttings and use the same irrigation methods at the same time. However, each lady treats her cuttings differently.

Jane	Sarah	Hadija
<ul style="list-style-type: none"> Cuts off all the leaves  <ul style="list-style-type: none"> Covers the cuttings with a black polythene bag 	<ul style="list-style-type: none"> Leaves only two leaves.  <ul style="list-style-type: none"> Covers the cuttings with a translucent polyethene bag. 	<ul style="list-style-type: none"> Does not cut off any leaves.  <ul style="list-style-type: none"> Does not cover the cuttings.

Whose plants are most likely to survive and why would the others not survive?

3. Sarah's usual meal consists of millet, rice and meat. However, her urine tested positive to the benedict's test in the laboratory. She is wondering how it is possible. Make Sarah understand the processes that go through her body that may have led to her condition.

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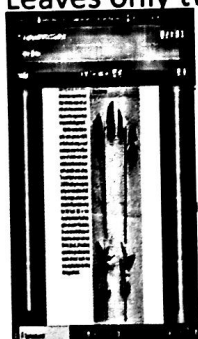
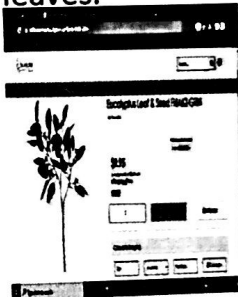


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