

Candidate's Name:..... Signature:

553/1
BIOLOGY
PAPER 1
July/August 2025
2 hours

ASSHU ANKOLE JOINT MOCK EXAMINATIONS 2025
Uganda Certificate of Education
BIOLOGY

Paper 1/Theory

2 hours

INSTRUCTIONS TO CANDIDATES:

This paper consists of seven examination items. It has two sections; A and B. Section A has three compulsory items.

Section B has two Parts; I and II. Answer one item from each part. Answer five items in all.

Any additional item(s) answered will not be scored.

<i>For scorer's use</i>			
<i>Item No</i>	<i>Basis code</i>	<i>score</i>	<i>Score's initials</i>
<i>Item 1</i>	<i>U₂</i>		
	<i>A₂</i>		
<i>Item 2</i>	<i>U₄</i>		
	<i>A₄</i>		
<i>Item 3</i>	<i>U₅</i>		
	<i>A₅</i>		
<i>Item 4/5</i>	<i>U₁</i>		
	<i>A₁</i>		
<i>Item 6/7</i>	<i>U₃</i>		
	<i>A₃</i>		
<i>Total scores</i>			

c) How were the maize plants able to survive the conditions experienced?

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ITEM 2

James, a Senior Two student, experiences eye strain when reading words close/near to the eyes. Her parents are seeking a solution to enable him learn well in class. Recently, he was discovered to be Diabetic after experiencing frequent urination and thirst.

Task

(a) Explain with clear illustration why James experiences reading problem.

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Task

- (a) Explain how Paul's activities affected the environment.
- (b) Advise Paul on how he can sustainably utilize the environment without much damage

PART II

Answer one item from this part. Write your answer in the answer booklet provided.

ITEM 6

During inter-team football competitions, the Nile team had a match against the Victoria team. Ten minutes before the match, Victoria's team manager served his players a heavy meal of posho and beans, while Nile's manager served glucose and water.

One Nile player was seen breathing rapidly, sweating excessively, and with a fast heartbeat. He took a sugary drink but managed to play until the end. Victoria lost the match but won their second one.

Task

- (a) Explain the processes the meal given to the Victoria players went through to benefit them in the second match.
- (b) How did the observed body changes in the Nile player and his actions help him overcome challenges in his body?

ITEM 7

Robert has worked in a cigarette factory for 10 years. Some workers smoke inside the poorly ventilated factory where Robert spends long hours each day. He also has a poor diet. Recently, he developed breathing difficulties, chest pain, anaemia, weak bones, and bleeding gums. Doctors linked his condition to his work environment and poor nutrition.

Robert, who is blood group O, needed a transfusion. His wife, who is blood group A, volunteered to donate blood but became angry when the doctor told her she couldn't donate to him.

Task

- (a) Explain;
 - (i) to the wife to understand the doctor's advice.
 - (ii) how Robert's illness was brought about by his working conditions and diet.
- (b) What measures can be taken to help Robert live longer despite his condition

END