

Candidate's Name: .....

Signature: .....

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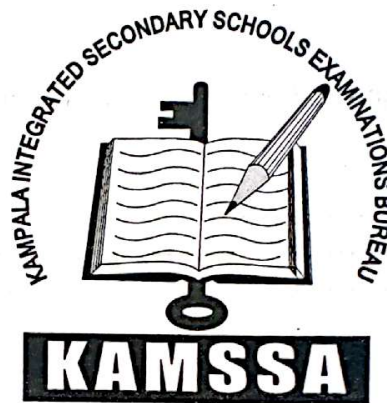
**BIOLOGY**

**Paper 1**

**July - August 2025**

**2½ hours**

Index NO							



**KAMSSA JOINT MOCK EXAMINATIONS**

**Uganda Certificate of Education**

**BIOLOGY**

**Paper 1**

**2 hours 30 minutes**

**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.*



(c) Explain how the maize plants in Musoke's farm were able to give out some yields despite the challenges encountered.

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**ITEM 2**

Mary's grandmother always complains about lower back pain, shortness of breath and due to old age, her posture changed and now days she walks with the aid of a walking stick. One of these days while preparing lunch in the kitchen, she accidentally lifted a hot saucepan from the charcoal stove and encountered a lot of pain. The saucepan later slipped away from her hands as she tried lifting it and all the soup poured on the kitchen floor and lower limbs. She encountered a number of burns on her lower limbs which are currently being nursed at the nearby health facility.

**Learner's task**

(a) Explain the series of events that took place in the grandmother's body from the moment she touched the hot saucepan till when she released it.

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### ITEM 5

Before Namanve became an industrial area, there was Namanve forest reserve, a number of swamps with much papyrus, other swampy vegetation cover and a variety of species of organisms. In the bid to expand the country's economy and also improve on revenue collection, the president encouraged investors to upgrade the area by setting up more manufacturing industries in the area. Currently, there is a lot of flooding in the area when there are heavy downpours, increased malaria cases, little rainfall received in the area and respiratory associated diseases amongst the residents.

#### Learner's task

- (a) Explain the challenges encountered by the residents and why it was important for the government to conserve such an area?
- (b) Explain what could be done by the local residents to overcome the likely challenges encountered in the area.

### PART II

*Attempt only one item from this part. Answers should be written in the answer booklets provided.*

### ITEM 6

Kasango is a businessman in Masaka town who spends his leisure time drinking alcohol and smoking cigarettes with his peers. He oftenly feeds on fatty meat and prefers eating foods with a lot of sugars from a local restaurant and thus added a lot of body weight. His doctor advised him to engage in regular physical exercises in order to keep him physically fit and to prevent him from suffering from some health-related problems. However, during his first visit to the gym, he experienced heavy breathing, increased heart rate, painful muscle cramps and sweated a lot.

#### Learner's task

- (a) Explain the possible causes of Kasango's experience while exercising.
- (b) Apart from engaging in physical exercise, how can you advise him to manage his lifestyle?

### ITEM 7

While watching last year's Olympic games on the television set, Cheptegei who represented Uganda in the games won the race and was awarded a medal. However, before the competitions began, he was given glucose powder by his coach as an energy booster. During the race, his heartbeat and sweating rate increased. He was also seen breathing deeply as he ran around the pitch with a lot of fatigue. Finally, he won the race and all these disappeared and was able to move to receive his medal and also celebrate his victory.

**Learner's task**

- (a) Explain the challenges experienced by Cheptegei during the race.
- (b) How Cheptegei was able to move to receive his medal, and how his body returned to a normal state after the race.