

**UGANDA ADVANCED EXAMINATIONS**

**BIOLOGY THEORY 2025**

**S.5 TERM ONE EXAMINATIONS**

**Duration: 2 hours**

**Instructions to candidates:**

Attempt all questions, presenting your answers logically and precisely.

1. Ongom a S.1 student went fishing with his father and observed some insects walking on water. This raised his curiosity and he became more attentive thus realized that he could as well see some green algae some floating on the surface of the water, while others a few millimeters below the water surface. He could not understand how what he observed was possible and how significant it was in the life of organisms. He asked his father who also failed to explain. You have been identified as a knowledgeable student in S.5 biology class, explain to Ongom what he observed and let him understand the significance of his observations in the life of organisms.
2. Wabuyi one of the S.3 students in your school is very enthusiastic. He frequently visits the library reading some books of biology. He recently discovered that most organisms prefer to store lipids, he wondered why. He looked for detailed information about this but he could not find it, because the book was not giving details. While in a verbal conversation with his friend Anguyo, he realized that lipids are diversely distributed in different parts of many organisms. To this day, he still asks himself how organisms benefit from this. Based on the knowledge you have about lipids, explain to Wabuyi, giving him precise details to fill his knowledge gaps.
3. A science exhibition is to be held in a University near your school next week. Prepared materials of prokaryotic and Eukaryotic cells are to be observed by everyone using microscopes. Some of the invited guests do not have sufficient knowledge about these cells and will need guidance for them to be able to identify and distinguish between these two types of cells. You have been chosen as one of the students to guide these guests as they observe the cells. Make a write that you will use on that day.

End