DIVINE SECONDARY SCHOOL KITALA

UGANDA NATIONAL LOWER SECONDARY

END OF TERM II EXAMINATION 2024

S.2 BIOLOGY

TIME 2 HOURS

NAME ……………………..……………………………………….SIGN…………

**INSTRUCTIONS TO STUDENTS**

ATTEMPT ALL ITEMS

ITEM ONE

Herbalists in Buikwe District use Mabira forest as a source of their herbal medicines. They debark trees, harvest leaves and dig out tree roots in order to extract various herbal medicines for several ailments. Consequently, the medicinal plant species in the forest are decreasing greatly.

1. Identify the several plant structures affected by the activities of the Herbalists(3 SCORES)

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1. How do the actions of the Herbalists affect the normal functioning of medicinal trees in the forest?(6 SCORES)

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1. Explain how the medicinal plant trees are able to survive despite the actions of the herbalists.(6 SCORES)

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(d) Explain the factors that affect the physiological process that hinders the normal functioning of leaves. (4 scores)

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ITEM TWO

While in a Biology lesson, Mr. Ssematimba a biology teacher at Divine ss kitala informed all learners that the biological hierarchy relates with the different political administration levels in Uganda . In this scenario, he used man as an example. Kavubu , one of the students in Mr. Ssematimba’s class has found a challenge in relating the concept.

Task

1. As a wise Biology student, help Lutwama to identify both the biological hierarchies and the political administrative levels that Mr. Ssematimba was talking about(4 scores)

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1. Further help Kavubu to outline the biological hierarchy for classification of man (4 scores)

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1. Explain to Kavubu why it would be important to classify man. (2 scores)

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Item 3

The government of Uganda plans a program to fight malnutrition in communities around the country. They are o give free seeds to households to grow their own food but however , they are first to send a team of scientists to those selected communities to study the topography and the soil properties and develop guidelines to both the farmers and the government on what to do to minimize seed loss and wastage . Two teams were sent to two different locations, Amolatar district where the land is generally flat with clay-like soils with long dry spells and Kigezi region where the land is hilly and raining throughout the year.

Task

Assuming you were coordinating both teams, write a report explaining the different challenges to be faced by framers in those districts. What can be done to minimize the possible challenges and why. (15 scores)

Item 4

Precious and Eka one of the s.1 student at Divine ss kitala were in a biology discussion in the school’s main hall, Precious told Eka that plants undergo autotrophic nutrition where they make their own food called starch . She also informed him that for these plants to make this starch, they require light energy and carbon dioxide as some their raw materials. Eka got confused and a serious argument emerged among both parties where they came to a conclusion of consulting another student from s.4 to resolve their issues.

Task

You have been approached as the s.4 student to resolve the matter among the two students according to the scenario ( 15 scores)

**END**

**N.B ,DON’T EXPECT MIRACLES TO HAPPEN IN SCIENCE**

**SET BY ; TR. SSEMATIMBA GODFREY**