DIVINE SECONDARY SCHOOL

U6ANDA NATIONAL LOWER SECONDARY CURRICULUM

**END OF TERM II EXAMINATION 2024**

**S.3 BIOLOGY**

**TIME 2 ½ HOURS**

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

**INSTRUCTIONS TO SEMI-CANDIDATES**

ATTEMPT ALL ITEMS

ITEM 1

Mr. Joshua cleared a forest along the slopes of a hill that had fertile soils to extend his farm for growing maize. After several years of planting maize on his farm, the maize plants planted started to grow slowly with yellow leaves which greatly reduced the maize yields. Yields are poorer at the hill top than in the valley. Also, residents of this village use the valley of Mr. Joshua’s farm for dumping plastic waste bottles and used polythene bags which has caused more challenges especially in the streams found in the valley.

TASK

Explain the likely effects of the actions of Mr. Joshua and the residents of his village and suggest possible ways these effects can be overcome. What is the importance of conservation of valleys? (10 SCORES)

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Item two

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 t 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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**SECTION B**

Item 3

Having been in a company of chain smokers for two years, Daniel, an teenager developed dry cough and serious chest pain and got hospitalized after coughing blood. The medical report suggested that Daniel was a smoker, which he utterly denied, and so the doctor put him on serious medication. In the course of the treatment, it was also discovered that Daniels’ blood could no longer load enough oxygen, a reason why he was always very weak.

Task

Mention Daniel’s Health problem and clearly explain how his body contracted it. Advise Daniel on how he can recover from the problem discovered later in the course of the treatment.(15 SCORES)

Item 4

A sixty-year-old woman instructed her grandson to watch over a saucepan of milk on fire until it boils. At boiling, the old woman rushed to lift the saucepan, but in the event, she immediately released it, slipped off and fractured her leg in additions to burns and scalds sustained. When rushed to the hospital, the orthopedic doctor diagnosed her with Osteoporosis.

1. Explain on the events that took place in her body from the time she touched the saucepan until she released it.
2. What symptoms did the orthopedic doctor base on to diagnose the woman as such?
3. Advise the old woman on how she can manage and improve her health condition as stated by the doctor.(15 scores)

END

N.B ; CRY BUT CRY SILENTLY