**Name………………………………………………………………**

**553/1**

**BIOLOGY(Theory)**

**April/2024**

**2HRS**

**Uganda Certificate of Education**

**Endofterm12024S1**

Biology

**Paper1**

**2hours**

**INSTRUCTIONSTOCANDIDATES:**

Thispaperconsistsoftwosections;AandB.Ithasfourexaminationitems.

SectionAhastwocompulsoryitems.

SectionBhastwoitems.Answeroneitemfromeachthissection

Answerthreeitemsinall.

AnswerstoSectionAmustbewritteninthespacesprovidedwhilethoseofSectionBmustbewrittenontheanswerbooklet(s)provided.

Anyadditionalitem(s)answeredwillnotbescored.

SECTION A

Item 3.

A group of p.7 pupils from your neighboring school visit the school biology laboratory, they look at the wall and saw a chart consisting of different pictures of items lik**e liver, nerve cells, circulatory system, blood, muscle, red blood cells, excretory system, parenchyma, heart, roots, shoot and guard cells**. They got confuse and started arguing onto which items are found in plants and those found in animals, and what level of organization in organism do each item on the chart belong. You have been called and instructed by laboratory attendant as a senior one student who has studied about cells, and level of organization within organisms to explain this chart and makes these pupils clearly understand and stop this arguments.

Tasks

a) Help the pupils identify amongst the items on the chart which are those found in plants and animals. Summarise your speech(explanation) in form of atable ( 05 scores)

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b) Categorise to them clearly, which item(s) in the chart belongs to different level of organisation in an organisms ( 7 scores)

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Item 2

.AstrangeflyingpesthasattackedcropfarmsinKASANGATI.Thepestdestroyscropsbyinjectingthemwithafluid,whichdriesthemup.Residentshavesuggestedtoformateamofspecialiststofightthepestanditseffects. Are interested in branches of biology that these specialised studied

a) help residents identify the branches of biology the specialist studied (3 scores)

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b) help them know the meaning of the branches of biology you have identified for them. (5 scores)

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**SECTION B( attempt one item in this section)**

Item 3

KadapawoaformerstudentofStJohn'sSSwenttoanewschoolcalled SMB Brain Center SS.UnfortunatelyhewasgivenaninterviewofBiologyasapasswordforthenextclass.Amongthequestionswhichtwistedhismindwasaboutlifeprocessesinlivingorganisms and their meanings.

Task.

a) Aftertheinterview Kadapawo approached you for help write for him the notes he can use to remember the question he was asked (10 scores)

b) help him relate also plants to animals in terms of life processes and show him it's very important to conserve plants. (10 scores)

Item 4.

There are very many species of organisms in our country Uganda of both plants and animals. These species are put into groups through using the knowledge of **classification** and each organism is given **scientific names** following the **rules** that were put forward by **CarlLinnaeus .** One of your colleagues saw this article in a news paper and is confused about it.

Task:

a)help him understand the whole article (10 scores)

b) Identify for him one place in your society where the process can be applied and how it is applied. (10 scores)

END