



EXCEL IN NEW CIRRICULUM BIOLOGY FOR “O” LEVEL.

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ARRIVED BIOLOGY EXCEL 2025

UCE BIOLOGY PAPER 1 FORMAT([553/1])

ITEM	ELEMENT OF CONSTRUCT	THEMES/TOPICS/SUB-TOPICS
ITEM 1	-Understands how plants obtain and use nutrients to meet their requirements during which raw materials and products are carried to and from various organs involved and different plant processes that occur.	-PLANT CELLS -NUTRITION IN GREEN PLANTS -TRANSPORT IN GREEN PLANTS -RESPIRATION IN PLANTS -GROWTH IN PLANTS
ITEM 2	-Appreciates how the human body is coordinating various activities to ensure normal functioning of the different body systems.	-CHEMICAL COORDINATION IN HUMANS. -NERVOUS COORDINATION IN HUMANS. -RECEPTOR ORGANS IN MAN. -LOCOMOTION IN MAMMALS.
ITEM 3	-Appreciates how characteristics are inherited in living organisms, passed to generations through reproduction and are manifested as organisms grow up or develop.	-CELL DIVISION. -INHERITANCE. -VARIATION AND SELECTION. -SEXUAL REPRODUCTION IN PLANTS AND HUMANS. -GROWTH AND DEVELOPMENT IN PLANTS AND HUMANS.
ITEM 4 &5(SECTION B PART 1)	-Understand the diversity of living organisms and sustainability of natural resources.	-DIVERSITY OF LIVING THINGS. -SOIL. -ECOLOGY/INTERRELATIONS.
ITEM 5 & 6(SECTION B PART 2)	-Understand how mammals obtain and use nutrients to meet their energy requirements during which raw materials and products are carried to and from various organs involved.	-NUTRITION IN ANIMALS. -TRANSPORT IN ANIMALS. -GASEOUS EXCHANGE IN MAMMALS -RESPIRATION IN ANIMALS. -EXCRETION IN ANIMALS. -GROWTH AND DEVELOPMENT IN ANIMALS.

NOTE:

1-The Biology paper consists of **seven (7) items where by section A is compulsory** and the **ITEM TAKER** is expected by the examiner to answer all items in section A.

2-Section B consist of two (2) parts ie part 1 and 2 but the ITEM TAKER is supposed to attempt ONE item from each but it contains four (4) items in total where by each part contains two items and so in total the ITEM TAKER attempts **FIVE ITEMS** from the paper.

SET 1

SECTION A (ATTEMPT ALL ITEMS)

ITEM 1

A fire in a forest killed most plants except a few trees. After some weeks plants started to grow again, and after a year the community was the same after before.

Task

- a) Identify the plant structures that were severely damaged by the fire.
- b) Explain how the normal functioning of the plants was affected by the fire leading to death of most plants.
- c) How did some plants manage to grow a few weeks ago?

ITEM 2

One day while walking to the garden, Mr Bogere a 60-year-old man saw a fierce dog about to attack him, he got a stick raised his arm and strongly hit it on the head and it ran away. Mr Bogere wanted to run after the dog, but he could not due to bone pain and he had previously had frequent fractures.

Task

- a) Identify the health disorders Mr Bogere is suffering from and the possible causes.
- b) Explain how Mr Bogere's body worked together to bring about the reaction from the time he saw the dog up to when the upper arm muscles enabled him to hit the dog.
- c) Suggest how Mr Bogere can overcome the challenges of the disorder.

ITEM 3

Mary a 14- year-old girl got pregnant for a rich man in an attempt to produce a boy for so that he succeeds his father's wealth. Two months later he visited a health centre and asked the doctor "**whether her baby will be a boy**", the Doctor replied saying "**Not sure but the chance is 50%**". The Doctor also advised her to visit the health centre in order to maintain her good health and that of the foetus(baby) because she was too young.

Task

- a) Identify the health challenges Mary is likely to face as a result of her condition in relation to her age.
- b) The Doctor replied and said "**Not sure, the chance is 50%**". Clearly explain the statement to Mary.
- c) Suggest the significance of the Doctor's advise (why the doctor advised Mary like that).

"Answer All the Items in this Section in order to attain scores"

SECTION B

PART 1

Answer one item from this part.

ITEM 4

In a village in Busoga region, an investor has constructed a cooking oil producing factory on the lake shores so he is closer to farmers producing the raw materials for cooking oil. The factory releases large amounts of liquid oily wastes into the lake twice a week and most local fish mongers lost their jobs and have attributed this to the challenges the factory imposes on the life in the lake.

TASK

- a) Explain to the locals the challenges the factory may be imposing to life in the lake.
- b) Advise the community on the ways to minimise the effects of the and show them the value of conserving such a natural resource.

ITEM 5

Part of a natural forest in Mityana District has been given to an investor who has constructed a plastic recycling factory. During the recycling process, the plastics are burnt into a liquid so as to reshape it into new useful plastic products. The District Environmental Committee held a talk show to sensitise the public about what was happening. One of the presenters was quoted saying “With the health and environmental challenges faced so far, we need to mind where to establish such factories”. The listeners need more explanation of what the presenter said.

TASK

- a) Explain to the listeners the challenges that the presenter talked about and how their impacts on the environment can be minimised. Explain why such areas of the environment should be protected.

PART 2

Answer one item from this part.

ITEM 6

Mr Nsamba is a farmer in one of the villages that are known for commercial farming. In one morning, he decided to eat a cup of **wheat porridge** which contained **some milk** and he also ate **two (2) tosses of bread** that were smeared with **blue band** before going for his farming activities. After thirty (30) minutes, Mr Nsamba felt his body was energised enough and then he went for his farming activities. However, when he started digging rapidly, His breathing rate increased and his heart beat increased and he sweat to his clothes becoming wet.

TASK

- a) Explain how the meal consumed Mr Nsamba in the morning helped him acquire energy for his farming activities.

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- b) Explain why Mr Nsamba's breathing rate and heart beat increased when he started digging rapidly and why he sweat to his clothes turning wet.

ITEM 7

Recently a Caleb a volleyballer started smoking cigarette because of some of his friends who also smoke. Caleb often feels short of breath during training and he has started coughing. He has worried about his decline in sports performance and isn't sure that the challenges are as a result of smoking.

TASK

Show how his life style is responsible for the challenges experienced in his body leading to a decline in his sports performance. Suggest how he can regain his performance.

END

**ALWAYS REMEMBER TO ATTAIN SUCCESS WITH GOD
AND HARDLY REVISE.**