

STUDENTS NAME: ..... STREAM: .....

SIGNATURE: .....



## STUDYSPHERE EXAMINATION BOARD

### S.2 BIOLOGY HOLIDAY PACKAGE

#### INSTRUCTIONS:

Attempt all the items

#### Item 1

S.2 class of ABCD High School made a model a cell as one of their projects assigned by their teacher. The figure 3 below is what they have come up with as their final product.



- Giving reasons state the type of the cell these students have modeled
- Describe how this model of the cell is different from other cell types

#### Item 2

In one of the biology lessons, Mr.Peter told the students that in classifying living organisms, each organism has scientific names or the botanical names for example he said that the

botanical name of honey bee is *Apis mellifera*. Your friend Jane did not understand that concept very well and has come to ask for your help to explain.

Task:

Explain to her how the teacher has come up with the scientific name of honey bee.

### **Item 3**

A community in Uganda, is cutting down trees in a nearby forest to create new space for farming because food yields from the land they are currently using has declined.

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government authority has stopped them from clearing the forest. The community members see no reason why they should be stopped.

- a) What general term or phrase would be used to refer to what the community is doing to the forest?
  
- b) Write an essay to the community which will make them to appreciate the government's action and how they can stay on their current land.

### **Item 4**

Atieng and Deng, senior two students were touring their school garden. They came across the maize plantations intercropped with soya beans. Each of them uprooted a soya bean and a maize plant and were arguing as to whether the plants are either monocots or dicots



- a) As a biology student, how would you help them settle their argument with clear reasons?
  
- b) During one of the biology lessons, the teacher discussed with learners about modifications of leaves of flowering plants. However, Moses did not attend that lesson due to sickness and would like to seek your help. With examples, help Moses describe the different modifications of leaves of flowering plants.

### **Item 5**

Peter a S.2 student ate a meal consisting of an egg and cooked cassava during breakfast. After eating his breakfast, Peter went back to class for his mid-morning lessons. As a student who has acquired knowledge about how animals obtain their food, ingest it, digest it and final products of digestion absorbed, help Peter understand how the meal he ate was broken in the body until when the final products of digestion were absorbed.

**\*\*THE END \*\***

**MERRY CHRISMASS AND A HAPPY NEW YEAR**