

**MENGO SENIOR SCHOOL  
BIOLOGY DEPARTMENT,2026  
EASTER PACKAGE HOLIDAY WORK.**

**S.2**

**SECTION A**

**Item 1**

At Nabyongo village, people and their crops were invaded by severe infections. Some people died while others are in critical condition. All tomatoes were attacked by a blight pathogen. On examination by the government health workers, it was found out that the diseases that attacked people were Malaria and Cholera. The village health workers have been asked to make a report but they lack knowledge on this invasion. Your knowledge is required to help them.

**Task**

Help the health team to understand;

ai) The pathogens that caused the disease that invaded people and crops at the village.

.....  
.....  
.....03scores

ii) The vectors that are responsible for spreading the diseases around thw village among people.

.....  
.....  
..... 03scores

iii) The taxonomic kingdom to which each specific group of pathogens that attacked people and crops belong.

.....  
.....  
..... 03scores

b) The most difficult disease pathogen to control among others and why.

.....  
.....  
..... 03scores

c) How Malaria spread in the village.

.....

.....  
..... 03scores

d) How the two diseases that attacked people can be controlled.

.....  
..... 05scores

**Item 2**

Jane planted her maize in the garden and the maize plants all looked healthy and vegetative. However, some maize plants that were planted under the shade of the tree in the middle of the garden failed to produce cobs. The leaves were yellow and the stems were very weak and bent their shoot heads away from the tree towards the field. Eventually, Jane harvested nothing from these plants.

**Task**

Explain to Jane

a) Why the plant shoots bent to the field away from the tree shade.

.....  
..... 02scores

bi) The major plant cells that were affected due to yellowing of leaves.

..... 02scores

ii) How the plant cells identified above were affected.

..... 02scores

iii) How the effect caused on the plant cells in bii) above affected the product yields of the maize plants.

..... 04scores

**Section B**

**Item 3**

Innocent is an S.1 learner. Innocent was given a task by his Biology teacher to classify some leaves using a dichotomous key. One leaf from each category is provided to you as specimens A, B, C and D.

Innocent tried to open some books for research but during his rearch, he came across some pictures of animals whose names were not clear to him. The pictures were named as follows.

Picture 1	<i>Musica domestica</i>
Picture 2	<i>Periplaneta americana</i>
Picture 3	<i>Apis mellifera</i>
Picture 4	<i>Canis familiaris</i>

She failed understand why the animals were named like that.

**Task**

Your help is needed to

a) Construct the dichotomous key **(06scores)**

bi) Translate the names of the animals into common English to help Innocent understand the pictures **(04scores)**

ii) Describe what each part of each name represent. **(08scores)**

END.