

ST. TERESA SS KKUNGU
New Higher Secondary Curriculum
END OF TERM I
S5 BIOLOGY PAPER 1
2:30 minutes

INSTRUCTIONS

Attempt all items

Answers in SECTION A should be written in spaces provided

Answers in SECTION B should be written on the answer sheets provided

SECTION A

ITEM 1:

Tom is a prominent farmer dealing in citrus fruits in Kawogo village. He has recently had a decrease in yield as a result of yellowing, and drying of citrus plants, yet he always invests a lot of money in his Orchard plantation. The agriculture officer diagnosed plants and found roots rotting with black patches. The agriculture officer told Mr. Tom that a fungal disease mainly affecting roots was affecting his citrus plants.

Tasks

- a) Identify the tissues affected in the infected organ of the citrus plants.

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- b) Explain how any two of the above tissues adapted for their role.

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ITEM 2:

During a scientific investigation, each student was given 50 micro meter long specimen. After observing using a light microscope, one of the students made a drawing of the specimen which was 20mm long. The student got stuck because he was unable to find magnification.

Tasks:

- a) Help the student understand the meaning of magnification and coming up with the magnification of the drawing.

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b) Mention the advantages of using the microscope that was used by students.

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ITEM 3

Jane was sweeping amidst the moving wind. She later coughed mucus containing dust and she was surprised that dust did not enter one of her vital organs.

(a) Help her understand what happened.

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ITEM 5:

The bodies of organisms have many chemicals of life. These enable organisms survive successfully on planet earth. It has been observed that fats are a common food store in many organisms living in cold environments and deserts.

Tasks: Explain the observations in the scenario and how are fats formed in the bodies of living organisms.

END