

Learner's name:

Signature:

553/1

BIOLOGY

Paper 1

(Theory)

Nov/Dec. 2024



NELSON MANDELA SECONDARY SCHOOL MASAKA

New Lower Secondary Curriculum

END OF YEAR EXAMINATIONS 2024

S.2 BIOLOGY

Theory Paper 1

2hours

Instructions to candidates:

- This paper is made up of **two** sections, **A** and **B**.
- Section A consists of **one compulsory** item. Section B is made up of two items.
- Respond to all the items in both the sections. For section A, **fill** your responses **in the gaps** left.
- Responses to section **B must** be presented on the answer **sheet/booklet** given.

SECTION A

Item 1

Lukowe is a known maize grower at a certain village. He bought five hectares of land where he made his maize growing project garden. He has grown maize on this land for a good number of consecutive seasons but the quality and quantity of the maize yields has gone on declining until this season, when his maize plants have all grown yellowish leaves, thin stems and poor prop roots.

Task

- a) Identify the cause of the yellowing of leaves and thin stams.

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..... 3scores

- b) Explain how this yellowing, poor root growth and thin stems will affect the maize yields this season?

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..... 5scores

- c) Advise Lukowe on what to do in order to suppress this problem and improve productivity.

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..... 4scores

SECTION B

Item 2

Mr. Lugemwa and his wife got some misunderstandings which led them to divorce. After divorce, the two partners shared their land. Mr. Lugemwa owned the part of the land that was partly bushy and partly forested while the wife owned the part that was clear with the gardens. It is now five years since they divorced. The wife has been growing maize, sorghum and cassava, each type of crop constantly in the same garden and now she no longer harvests proper yields. Lugemwa cleared the thickets, leaving some little trees in his garden and abandoned the forested area. He does not give much time for crop agriculture and his gardens are at times bushy but he harvests very good products from his cultivated gardens. What confuses Lugamwa now is that the x-wife claims to come and clear the forested land for crop growing because it is lying idle but Lugemwa has refused.

Task

- a) Give an advice to the partners on the value of the resources each owned.
- b) Explain the impacts of the wife's agricultural behavior to the environment.

19scores.

Item 3

Molly primary school is known for having won trophies in national school netball competitions for the last five consecutive years. The school has an outstanding netball team but the team nearly lost the last match at the finals when the players played the first half when hungry. This was because the director had lost all the money which was budgeted for feeding them. They were beaten ten goals on one by their counterparts in the first half session. Before the second half of the match, the coach bought two chapattis for each of the players and they managed to win the overall match in the second half with twenty five goals on eleven because the players were this time energetic.

Task

- a) Describe the fate of the chapattis given to the players that led them to be able to win the match.
- b) Describe how the structures responsible for absorption of the chapattis end products adapted to their function.

(19scores)

*****Marry Christmas and a happy new year*****