NELSON MANDELA SECONDARY SCHOOL

END OF TERM 11 ASSESSMENTS-2025

S.2 BIOLOGY

2hours: 30 Minutes

INSTRUCTIONS:

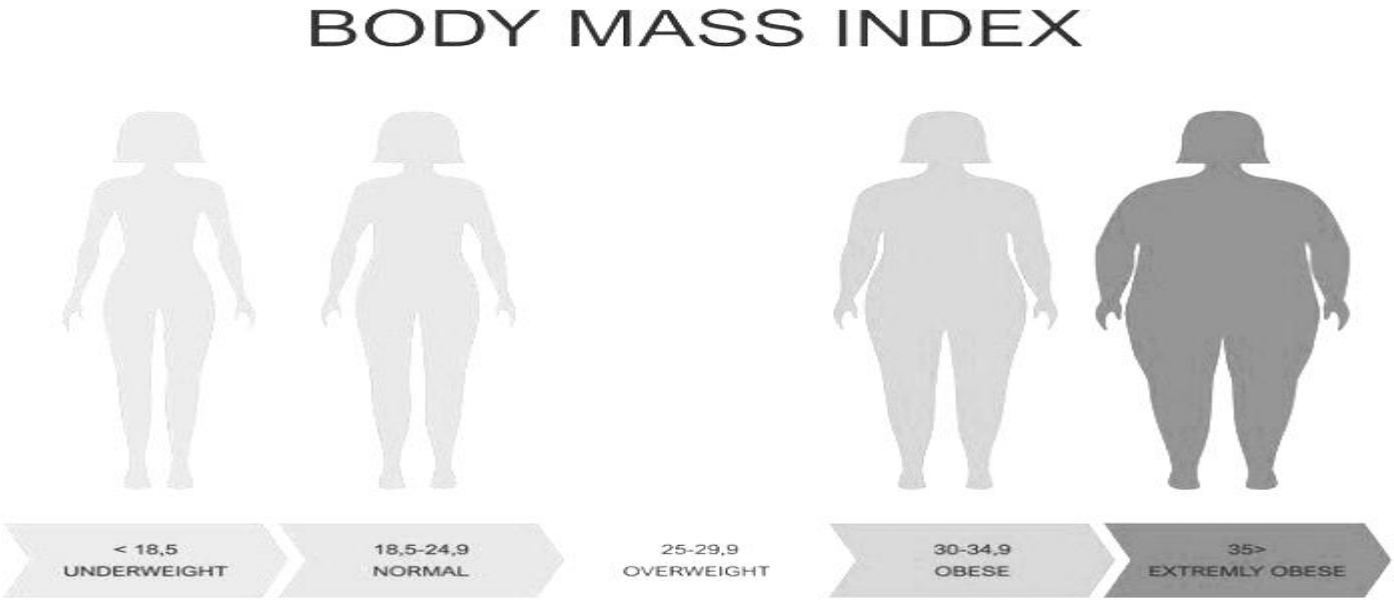
- *Attempt all the items in both the sections A and B*
- *Fill your responses in the gaps left for section **A** and use the answer booklet for section **B**.*

SECTION A

Item 1

Esther, an s.2 girl at NELMAN S.S developed some symptoms such as general weakness of the body, poor breathing, swollen joints and unnecessary sweating. Her younger sister Hellen, who was quite bigger and taller than her, escorted her to the village health Centre I and the village health team (VHT) suspected her to be obese. The girl rejected the suspicion of the VHT leader saying that she could not be obese according to her small size yet her fatter sister is healthy. You have found them arguing and you are trusted to have enough knowledge about this condition that is being discussed on. According to the VHT, Esther is 1.4 m tall and weighs 69 kg while her sister is 1.9m and weighs 80kg.

Support



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TASK

Help Esther and her sister to;

a) Understand the meaning and cause of the condition Esther is in as described by the VHT leader.

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…….. 03 score

b) Determine the key index used by the VHT to deduce that Esther was obese while her sister is normal.

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…… 03 score

c) From the results in b) above, what conclusion and recommendation can you give to Esther and her family?

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……
…… 04 score

ITEM 2

JohnPaul is a maize grower at kabimbi village. John Paul has been producing tonnes of maize grains from his one hectare plot of land per season. However, Due to the recent heavy rainfall, his maize crops of this season have not yielded properly. The yellowing of leaves followed the heavy rainfall. Some maize grains were also moved down slope to the valley. The man is confused of what to do next.

TASK

If you were consulted for advise;

a) Identify the factors responsible for yellowing of leaves and poor yields at large.

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……
…… 03 scores

b) Explain how the factors identified in (a) above led to the poor yields of the maize crops.

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……
……
…… 03 scores

c) Advise John Paul on what to do so as to restore his soil productivity next season.

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…… 04scores

SECTION B

Item 3

Malaria, Cholera and Dysentery have become a growing threat in Uganda in both rural and urban areas. It is reported that these three diseases have a reasonable contribution on the death rate of the country. Plasmodia, the malarial parasites are transmitted by a certain vector which is structurally different from that which spreads Cholera and Dysentery. The two vectors are becoming uncontrollable in most parts of the country due to negligence and ignorance of people about their spread and control.

You are invited to present a message to the people on the problem associated with the two vectors and their spread.

Task

Make a write up of the message you may present.

Item 4

Uganda was known as the pearl of Africa because of the beautiful climate and bio diversity it had. Uganda had a green vegetation and fertile soil with accompaniment of various water bodies. At this time we talk now, the environment has turned otherwise. People are very busy

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cutting down trees for charcoal burning and firewood, the soil has become extremely infertile and the climate has become so dry that the country is experienced with very long droughts and short term rain. Ugandans need to be sensitized upon this because they are ignorant about it.
(*Extracted from; Hard Tower music crew's "My Uganda" Lyrics, Second stanza.)*

The composer of that song has not yet completed it because he lacks information from which he can organize more lyrics for complete information to be cast to the audience.

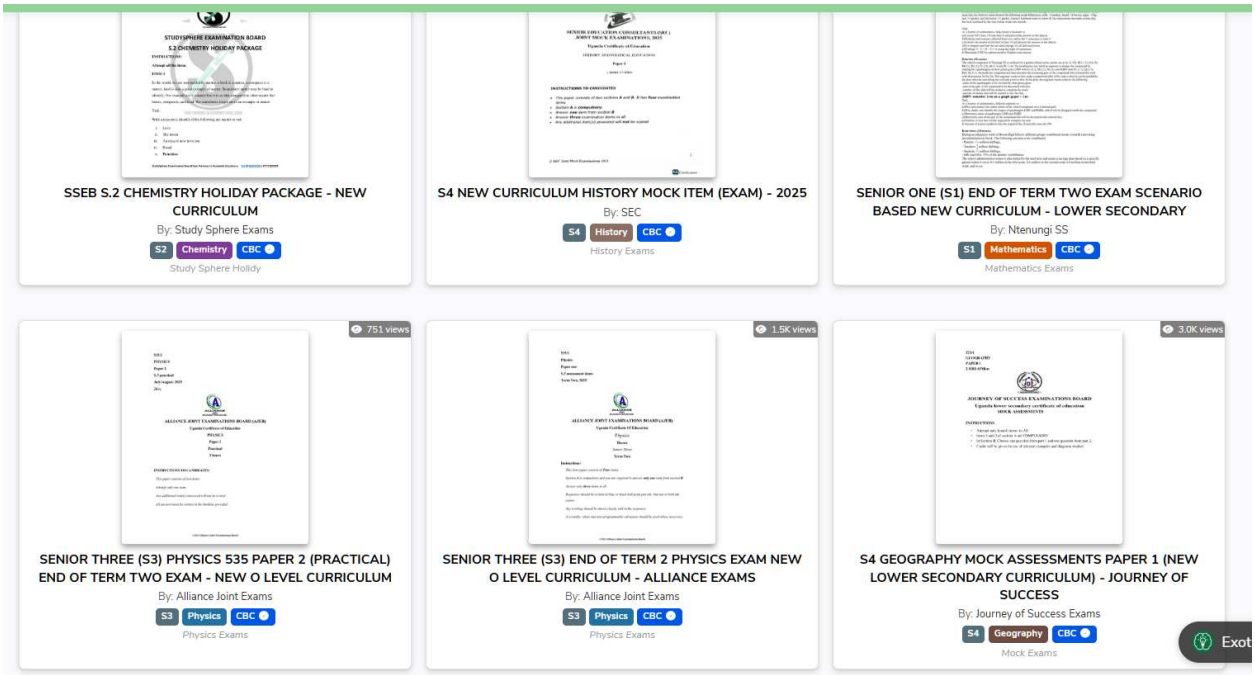
Task

Write up the rubric of the information that can help this young music composer to build up the complete message to be cast to the audience.

END

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