KIYALA HIGH SCHOOL

END OF TERM ONE ASSESSMENT TEST -2024 BIOLOGY

Paper 1 Theory

S.3

2 Hours

INSTRUCTIONS

- This paper consists of **four** examination items.
- Answer all the items in this paper.
- > Use of illustrations and drawings will earn you more scores.

Item 1

soil types in Uganda vary from place to place. The people in your neighbourhood are engaging in different activities. Some are;

- a) Commercial farmers who cultivate crops in pots
- b) Builders who plaster houses in the village
- c) Potters who make stones and pots.

These individuals have been using soil from a certain mining site in the neighbouring village. However, the plaster which the builder uses gets too loose in a very short period of time and falls off. The potter's products crack while drying and the farmers crops produce poor yield. This has made them to worry as their businesses are nearly collapsing. You have been contacted by the village leaders who are seeking for advise on what the people can do to sustain their businesses.

Task

Using your knowledge of physical and chemical properties of soil; Write a speech you will deliver to the people, for them to understand the soil type each one needs to use so as to save the businesses.			

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Item 2	
	ents carries out an investigation to determine the percentage
	different soil components as follows;
Organic matter	
	= 25%
Minerals	
	= 26%
Task	
a) Represent this	s information in a bar graph.
b) Identify the;	
i) Sample of	Soil under investigation.
ii) Compone	ents with lowest composition.
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iii) Mention	the importance of each soil components mentioned above.
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Item 3 Tom owns a small piece of lad behind his house in which a group of boys play football everyday on it. All the cows of the neighbours also graze on the same piece of land every morning and evening. Tom intends to cultivate the same piece of land for vegetable growing. Task As a student of biology, write a report indicating the harmful effects of such activities			
on Tom's land and how you advise Tom to improve on the quality of his land.			
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 Item 4 Senior three (3) class conducted experimental investigation on soil samples collected from different sites in the compound. The class discovered that some soil samples was moist while others were dry. Your teacher expects you to carry out an investigation to determine the percentage of water in the different soil samples. Task a) Prepare a report about the experiment that you conducted in your class and your report should include the following; ▶ Aim of the experiment. ▶ Apparatus and materials that you need to use. ▶ Procedure or what you need to do. ▶ Results of your experiment. ▶ Conclusion of the experiment. 				

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	Another student of senior three following results; Mass of empty dish	e (3) performed a similar experiment and obtained = 15g		
	Mass of dish + fresh soil			
		=45g		
	Mass of dish + heated soil	=40g		
Cal	lculate;			
<i>i)</i> T	The mass of soil before heating	5.		
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• • • •				
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	Mass of heated soil.			
iii)	Mass of water evaporated from	m the soil.		
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<i>iv)</i> The percentage of water in the soil.				