KIYALA HIGH SCHOOL

MID-TERM ASSESSMENT TEST 2025 BIOLOGY

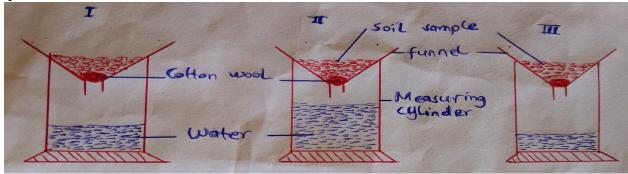
S.2

Time: 2 Hours INSTRUCTIONS:

- > The paper contains *three* items.
- > Attempt *ALL the* items.

Item 1

In an experiment to determine the properties of different types of soil sample the sets of apparatus were arranged. $250 \ cm^3$ of water was poured into each funnel containing a soil sample. The following observations were made at the end of the experiment and the amount of water that collects in each measuring cylinder is noted. Study the figure below and answer the questions that follow.



Task a) State the aim of the experiment. b) With reasons, state the type of the soil sample used in Experiment I Experiment II

Experiment III		
c) Identify the methods that can be used to improve on soil sample II		
d) What conclusion can you make on the above experiment.		
Item 2 Okello S.2 leaner carried out on investigation to determine the percentage of air in a given soil sample and obtained the following values; Volume of soil used = $40 cm^3$ Volume of water added to soil = $50 cm^3$		
Find volume of water + soil after mixing = $80 cm^3$		
Task a) Determine the volume of air in the soil sample.		
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b) Calculate the percentage of air in the soil sample.		

In another investigation, 80 g of a fresh soil sample was heated in a crucible. After repeated heating and cooling, the constant mass of the soil was found to be 65 g. calculate the percentage				
of water in the soil sample.				
<u>Item 3</u> During a practical lesson of biology, an S.2 student dug out some soil sample and various living				
organisms in the soil. Other students wondered how these living organism were able to survive in				
the soil.				
Task				
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	i)	n how the following are important to the soil. Living organisms.
	,	Water.
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	iii)	Air.
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