ASSESSMENT FOR TERM 1 2023

DEPARTMENT OF BIOLOGY

BIOLOGY (THEORY)

SENIOR TWO

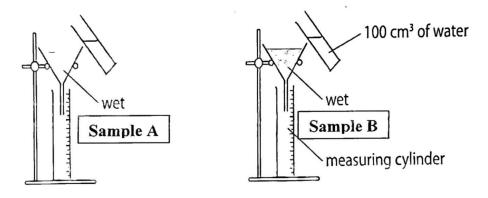
TIME: 45 minutes

Name.....stream.....

INSTRUCTIONS:

Attempt all questions in this paper in the space provided

1. The diagram below shows the apparatus used to investigate how water passes through two different soil samples A and soil sample B



Each funnel contained an equal amount of dry soil. Water was poured to make the soil completely wet.

Then 100cm3 of water was poured into each funnel and allowed to drain into the measuring cylinders. The volume of water collected in the cylinders was measured and recorded at the end of the experiment. The table below shows the results

Sample	Volume of water collected in cm3
Soil Sample A	70
Soil Sample B	36

a)	Identify the property of soil being investigated
b)	Calculate the volume of water retained by each soil sample
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c)	Calculate the percentage of water retained by each soil sample. Show your
呼-	working.
d)	Basing on your results in part c, identify
	i) Soil sample A
	ii) Soil sample B
e)	Which of the two soil samples is suitable for plant growth. Give a reason for
	your answer.
	Reason

Good luck