NAMUNGOONA SALAF SECONDARY SCHOOL END OF YEAR ASSESSEMENT, 2022

DEPARTMENT OF BIOLOGY

SENIOR TWO

BIOLOGY P1

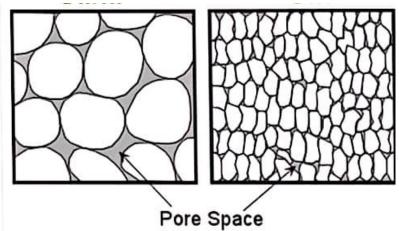
(THEORY)

1hour 30minutes.

Name	Stream
Instr	ictions
•	This paper consists of two sections A and B . All questions in section A are compulsory
•	For section B attempt only one question

SECTION A. (45marks)

1. The figures below show soil samples A and B collected by senior two students. Study them carefully and answer the questions that



a)	Identify each soil sample and give reason for each. (04marks)
	Soil sample A
	Reason
	Soil sample B
	Reason

b) Equal of volumes of the soil were put in a funnel resting on a beaker and then 20cm³ of water was poured into them. The volume of water collected was then determined.

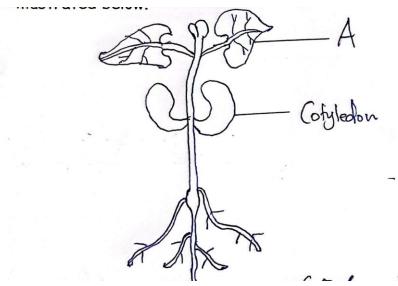
Soil sample	Volume of water	Volume of water	
	added (cm³)	collected(cm³)	
Α	20	8	
В	20	15	

i)	i) Identify the property being investigated in part (b).(01mar	
ii)	Calculate the percentage of water retained by each soil sample. (03mark)	
•••••		
iii)	From the above results in b(ii), state the soil sample suitable	
	for plant growth and give a reason for your answer. (02marks)	

2. The illustration below shows a set of biological processes which occur in a green plant

N P	lucose Process M
a) Name	Energy (
Process M	(02marks)
a) Identify compound P.	(01mark)
b) State any other environmental condition for pro	ocess N to occur.
c) How is process N different from process M?	(01mark)

3. A group of 5.2 class planted seeds in a well-watered soil. After 5 days they uprooted the seedling and drew its structure as illustrated below.



a) With a reason, identify.

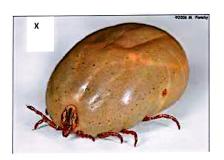
(04marks)

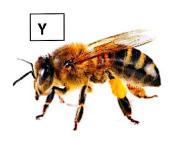
i) Type of seed grown.....

	Reason
ii)	Type of germination
	Reason
b)	Describe the root system of the above structure. (02marks)
·	How is structure labelled A important to the above seedling?
d)	Give the advantage of growing such plants as illustrated at your
	home gardens. (02marks)

. The photographs below are Arthropods collected by students on their ecological tour. Study them carefully and answer the questions that follow.









	a) Name the class to which X, Y and Z belong.	(03marks)
	X	
	У	
	Z	
	b) How is organism Y economically important to man?	
	c) Give 3 harmful effects of X	(03MarKS)
	d) With reasons, identify two modes of locomotion of \	y (02Marks)
	e) Basing on the pictures, how is X structurally differen	
5.	All leaves have common primary function, but some leave modified to perform specific function. Study the figure modified leaves and answer the questions that follow	

a)	Leaf A (02marks)	
	Leaf B. (02marks	s)
	Leaf C. (02mark	 (s)
b)	Explain Why plants leaving in deserts have small leaves. (O2marks))
	SECTION B (35marks)	••••
6.	In the recent years, Namikamba Village started developing at a very hirate. Most of the people in that village have been employed in the newly established paper processing industry, Diary processing industry, Oil refinery and charcoal burning. During a heavy rain, the Big portion of land of Namikamba region was observed to have developed very big tunnels that even started to accommodate large volumes of water.	_
	a) Identify the process that caused the development of tunnels in the soil. (02marks) b) What could have caused the land of Namikamba to appear in that wa	
	after heavy rain. (10marks) c) How can you advice people of Namikamba such that rest of their land is not affected the same. (08marks)	d
7.	Malaria is the leading disease that affect people mainly in the tropics. I is caused by organism X that is transmitted by the female anopheles' mosquito. (03marks) a) Identify organism X and state why it mainly affects people from the tropics (03marks) b) Why is organism X transmitted by the above mentioned vector?	