

ADM NO \_\_\_\_\_ NAME \_\_\_\_\_

**GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU.**

**FORM 1 BIOLOGY. END OF TERM 3 EXAMINATION. 2014.**

Attempt all the questions.

1. Figures V and W represent two types of cells.



i) State whether cells V and W are animals or plant cell.

V \_\_\_\_\_ (1mk)

W \_\_\_\_\_ (1mk)

ii) Name the structure in V which

a) Gives the cell a definite shape \_\_\_\_\_ (1mk)

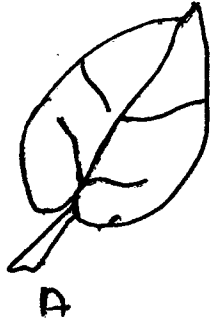
b) Site of chemical reaction \_\_\_\_\_ (1mk)

iii) Name the structure in W which is semi permeable \_\_\_\_\_ (1mk)

iv) Name the carbohydrate found in the outer wall of cell labeled \_\_\_\_\_ (1mk)

2a) Give the difference between a compound and a simple leaf. (2mks)

b) Observe the leaf specimens below.



i) Give 2 observable differences between the two leaves.

(4mks)

i)

ii)

3. Below is a drawing of a certain cell organelle's.



i) Identify with a reason the organelle \_\_\_\_\_ (2mks)

ii) Reason \_\_\_\_\_ (2mks)

ii) Name the parts

(2mks)

X \_\_\_\_\_

Y \_\_\_\_\_

4. The diagram below shows what happens to a red blood cell when it was put in a solution.



i) Name the type of solution in which the cell was put.

(1mk)

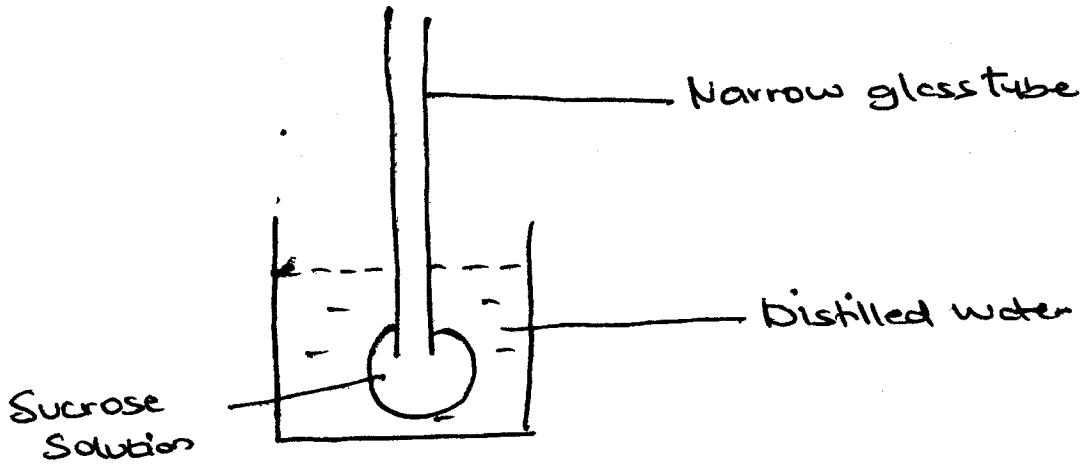
ii) Name the process demonstrated in the diagram.

(1mk)

iii) Explain the process.

(2mks)

5. An experiment was set up as shown below.



a) State 2 expected observations after 20 minutes.

(2mks)

i)

ii)

Explain the observations in above.

(2mks)

6. Explain the following:-

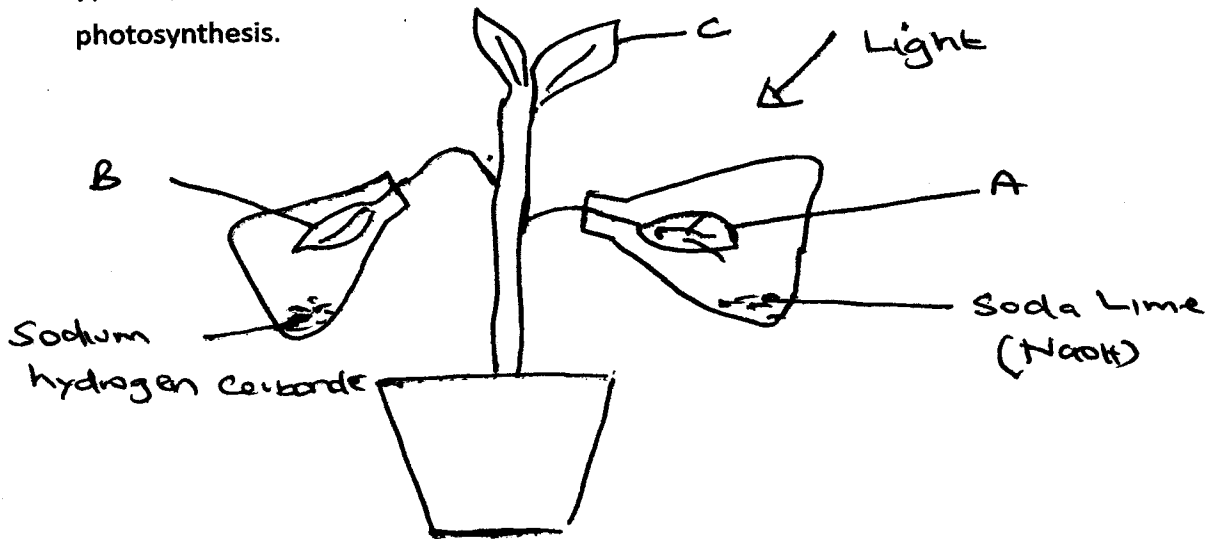
i) A variegated leaf accumulates less food than non-variegated plant under similar conditions.

(2mks)

ii) Plant will not synthesize in the dark.

(2mks)

7. A Form One student set up an experiment to show that carbon iv oxide is necessary for photosynthesis.



i) How would you test whether photosynthesis has occurred?

(2mks)

ii) What is the role of soda lime in leaf A (2mks

iii) What is the role of sodium hydrogen carbonate in leaf B. (2mks

iv) Give the results you would expect if leaves A, B, & C were tested for starch . (6mks

A \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

In an activity photosynthesing leaf, there is net movement of oxygen from the inside leaf to the outside. Give an explanation for this. (2mks

When plants are exposed to very hot and dry weather, the rate of photosynthesis falls. Suggest an explanation for this. (2mks

8. Name the building blocks for  
(2mks

i) Proteins

ii) Lipids

Two monosaccharide link up to form a disaccharide. Complete the equation below.



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