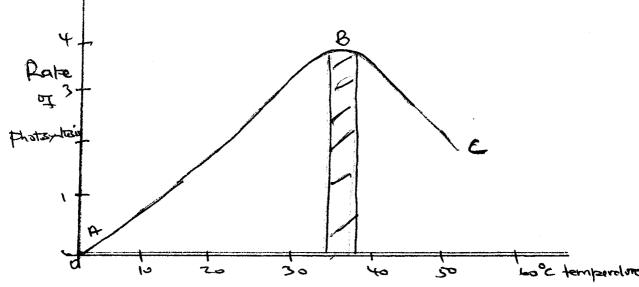
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GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU. FORM 1 BIOLOGY MID TERM EXAMINATION. TERM 3 2015.

Attempt all questions.

1. The graph below show the effect of temperature on the rate of photosynthesis.



ii) Give a reason why the rate of photosynthesis decrease between point B & C. (2mks

iii) Whats the optimum temperature range for this experiment.

(2mks

iv) Give a reason why the rate of photosynthesis is low at point A.

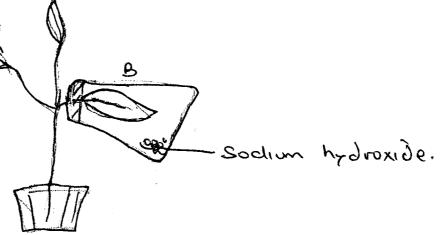
(2mks

2. Fill in the table below.

(3mks

i) Type of Carbohydrate	Framula
Monosa cchavi de ii) Disaccharide ii) Polysaccharide	Examples 1.
	2.
	3.
	1.
	2.
	3.
	1.
	2.
	3.

3. A Potted plant had one of its leaves enclosed in a glass flask as shown in the diagram below it was then left for 24 hours in a dark cupboard. After that it was left in a brightly lit place for 4 hours.



i) What was the aim of the experiment.

(2mks

ii) Why was the plant kept in the dark for 24 hours.

(2mks

iii)	In brightly lit place for 4 hours.	(2mks			
iv)	What was the role of sodium hydroxide.	(2mks			
v) A	What was the observation made when the two leaves were tested for starch. (2				
В					
4.	Give the formula used to calculate the magnification in a light microscope.				

Draw a labeled diagram of a typical animal cell as seen under the light microscope.

5. (5mks

- Two strips M and N of the same length were obtained from a potato tuber whose cell 6. sap was 30% solution of 5% sugar concentration while strip N was placed in 60% sugar concentration.
- What change was expected in strips M and N. a)

(4mks

Μ

Ν

7.	The diagram below shows internal structure of a plant leaf,
Chli	roplests COOPERSON
i)	Name parts (10mks
Α _	
В	
С	
D	
E	
ii) D	Give function of parts labeled (4mks
E	4

iii)	How are cells in C adapted for photosynthesis	(2	2mks			
8. i)	Name the element found in all carbohydrates.					
ii)						
iii)						
b)	Name the building blocks of					
i)	Carbohydrates	((2mks			
ii)	Lipids	((2mks			
c)	The equations below represent hydrolysis (bre nosaccharides. Fill in the spaces.	aking) of Disaccharid	les to form			
i)	MaltoseGlucose +	·	(2mks			
ii)	SucroseGlucose+		(2mks			
iii)	Glucose +	Galactose	(2mks			
9.	When testing for starch in a leaf,					
	The leaf is first boiled in a beaker					
	The leaf is then transferred to the boiling tube containing methylated spirit.					
	The leaf is then washed in hot water then spread on a white tile and drops of lodine is					
	added. i) Give 2 reasons of boiling the leaf in hot	t water.	(4mks			
	11 CITC E (COOCID O : m - 1		•			

Give 2 reasons of boiling the leaf in hot water.

i)

- ii)
 b) Why was the leaf put in a boiling tube containing methylated spirits. (2mks
- c) Give a reason of washing the leaf using hot water. (2mks
- 10. Draw and label the following diagrams.

b) External parts of a leaf

(5mks

c) Cell membrane

(4mks

(c) Chloroplast.

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