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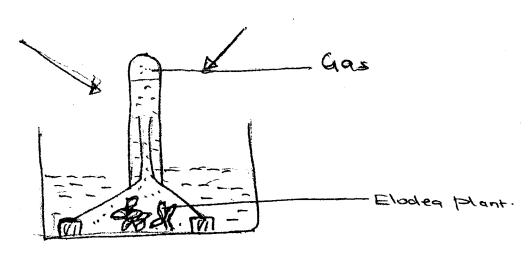
## GATITU SECONDARY SCHOOL P.O. BOX 327 – 01030 GATUNDU BIOLOGY FORM 1 MID-TERM EXAMS TERM 3 2014.

- 1. State the role of the following during photosynthesis.
  - i) Light
  - ii) Chlorophyll

(4mks)

2. The diagram below represent a set up that was used to investigate a certain process in plants.

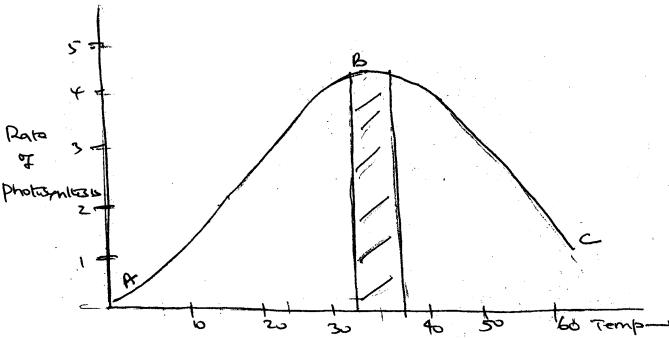
Light



- i) State the process being investigated. (1mk)
- ii) Identify the gas produced (1mk)
- iii) Give a reason why
  - i) A water plant was used?
  - ii) Wooden blocks were used

	iii)	Sodium hydrogen carbonate was added into the water. (2mks)
	iv)	How can the above experiment be used to determine rate of photosynthesis under varying light intensity (2mks)
	Give 2 po	ossible ways that happens to oxygen produced during the splitting of water eduring photosynthesis. (2mks)
i.		
ii.		
4.	Explain the i) Bo	ne importance of the following when testing for starch in a leaf.  poiling the leaf in hot water
	ii) Di	pping the leaf in methylated spirit (2mk)

5. The graph below shows the effects of temperature on the rate of photosynthesis



i) Give a reason why the rate is increasing between point A&B (2MKS)

ii) State the optimum temperature for this reaction (2mks)

iii) Give a reason why the rate of photosynthesis is decreasing between point B & C (2MKS)

6a) Differentiate between haemolysis and plasmolysis (2mks)	
b) Explain what happens to a plant cell whose cell sap concentration is 2.5% if dipped	ir
solution of salt whose concentration is 5%. (2mks)	
7. If you are provided with. i) A potted leafy plant.	
ii) Alluminium foil	
Explain how you would carry out an experiment to show that light is necessary for photosynthesis	
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