8/10

Birzeit University
Department of Biology and Biochemistry
Biology111
Sheet #4

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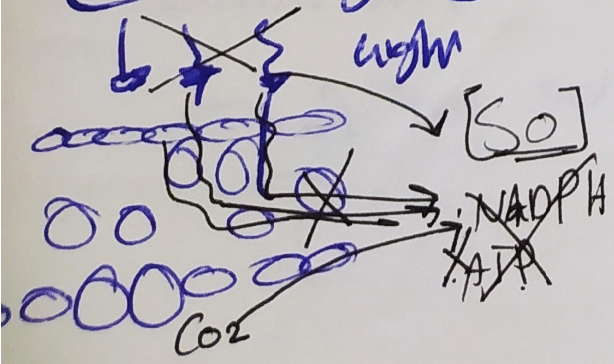
1. What is the difference between anabolism and catabolism?
   anabolism:- building substance
   catabolism:- broken the substance like

2. In the photosynthesis experiment:
   A. Why did we use different light intensities?
   to see the efect of the light to the photosyn and the quality of photosynthesis indifferant light inces
   B. What was the result in the absence of light? Was this the expected result?
   without light there is no photosynthesis because there are two step for photosyntheses the two is min for photosynthis without light there is no light reaction so there is no [CO_2 Reduction. Yes
   C. Explain what happens to the Calvin Cycle when plants are left in the dark.
   the plants are left the dark there is no photosyntheses. without light there is no light reaction. so there is no ATP and NADPH thats imporvant for [Calvin cycle]

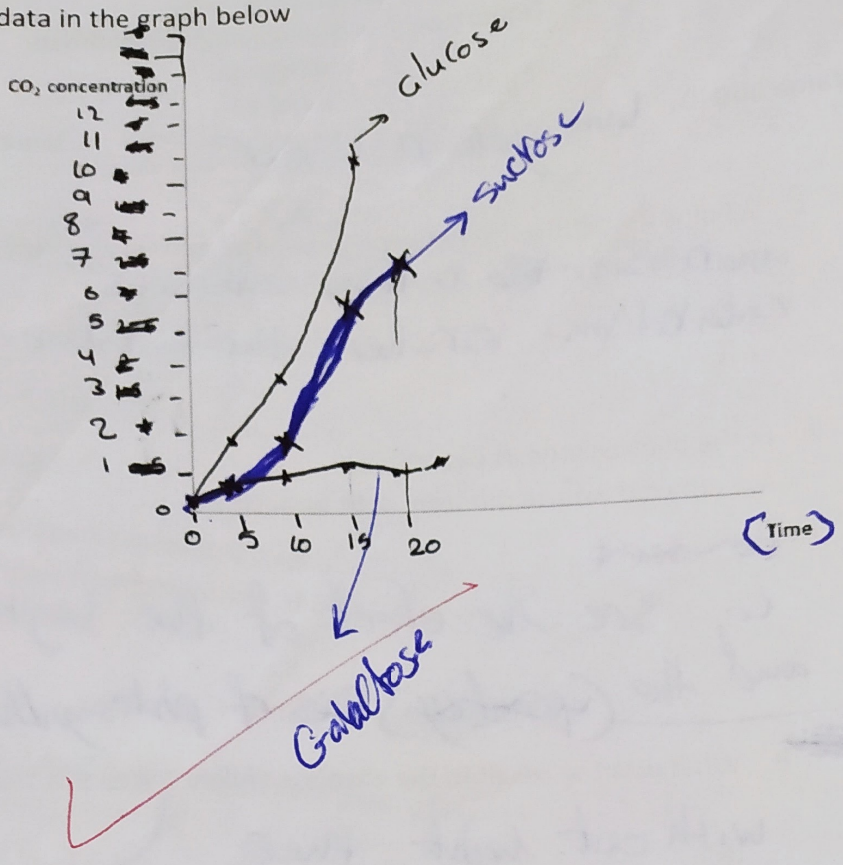


[the calvin cycle didnt happend]

Calvin cycle or CO_2 Reduction

3. A. Plot the given data in the graph below

Glucose	
Time	CO_2
0	0.05
5	2
10	4
15	11
20	8
Sucrose	
Time	CO_2
0	0.05
5	0.5
10	2
15	6
20	8
Galactose	
Time	CO_2
0	0.05
5	0.5
10	0.5
15	1
20	0.8



3. B. Which sugar gave the most efficient rate of fermentation?

Glucose.

3. C. Explain the results obtained with Sucrose

the increasing of CO_2 is not regular

the increasing at the firs five mine closer then jum to be mor far