

KIWAWU SENIOR SCHOOL

END OF TERM I CHEMISTRY ASSESSMENT

CHEMISTRY PAPER II

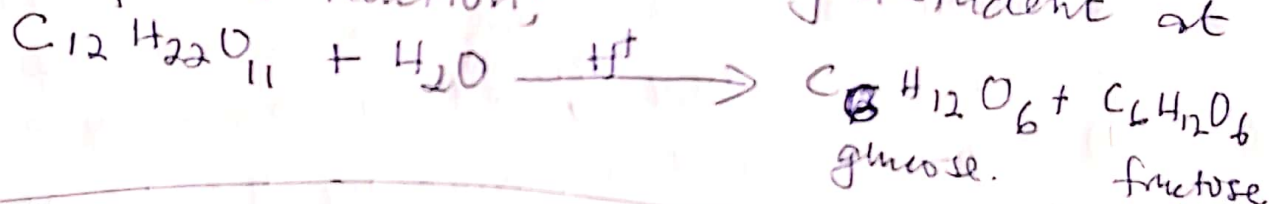
Instructions answer any five questions

(1) a) Explain what is meant by the following terms

(i) Order of reaction (2 mks)

(ii) Molecularity (1 mk)

(b) Sucrose is hydrolysed in presence of hydrogen ions to form glucose and fructose. The data below was obtained by a student at 25°C for the reaction;



Concentration of sucrose in mol dm^{-3}	0.08	0.06	0.04	0.02
Rate in $\text{mol dm}^{-3} \text{sec}^{-1}$	0.004	0.003	0.002	0.001

(i) plot a ~~graph~~ suitable graph and use it to determine order of reaction (10 mks)

(ii) Calculate the rate of reaction when the concentration of sucrose is 0.12 mol dm^{-3} (3 mks)

c) Certain substance A reacts with water in a single stage.