Question Number	Acceptable Answers	Re	ject	Mark
14(a)	So that the phenol is used up / methyl orange is bleached before the rate changes (significantly) OR So that the phenol is used up / methyl orange is bleached during the initial rate period OR So that the concentration of bromide/bromate/reactants does not fall significantly before all the phenol is used up / the methyl orange is bleached OR Within this region/period/time the average rate of reaction approximates to the initial rate	bromine		(1)
Question Number	Acceptable Answers		Reject	Mark
14(b)(i)	So that only the concentration of bromide ions varies (significantly) during the course of the reaction / so that the concentration of the bromide ions is the limiting factor / so that the concentration of bromide ions is the only variable ALLOW  So their concentrations / the BrO <sub>3</sub> and H* concentration do not change OR	so le		(1)

So their concentrations / the BrO3- and H\* concentrations

are not the limiting factor

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**Michal Rosen-Zvi** 

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