Question 22 (6 marks)

A student prepared the compound methyl propanoate in a school laboratory.

(a)	Give a common use for the class of compounds to which methyl propanoate belongs.	1
	ester A common use for	
	esters are flavouring for food	
(b)	In the preparation of this compound a few drops of concentrated sulfuric acid were added to the starting materials. The mixture was then refluxed for a period of time.	2
	Why was it necessary to reflux the mixture?	
	It is necessary to reflux because the	
	reaction will increase	
	it heated and the modulets are	
	It is necessary to reflux because the reaction to will increase if heated and the products are very volatile so it needs to be	
(c)	Name the TWO reactants used in preparing the methyl propanoate and draw their	3
	structural formulae,	3
	t t o	
	H-C-C-C propanois acid	
	1 1 OH	
	4	
	H-C-OH methanol	
	LI-C-UFI VICINOME	