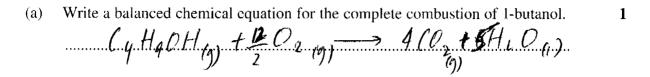
Question 23 (3 marks)



(b) A student measured the heat of combustion of three different fuels. The results are shown in the table.

Fuel	Heat of combustion (kJ g ⁻¹)	MM = 74.08.
A	-48	× 7408 = 3555 89 K)
B	-38	x 74.05 = 25" 15.001
C	-28	× 74.05 = 26/6

The published value for the heat of combustion of 1-butanol is 2676 kJ mol-1.

Which fuel from the table is likely to be 1-butanol? Justify your answer.

ful C	is 1-h	utano!	AH =	<u> </u>
N = M	to th	my h	KJ/mol	
	•••••			
<u>KĴ</u> ., y.	w v 00	-28 x	74.08 =	2676 KJ/,
M	•••••		····· '	······································
To cha	ing type	165/9	we	to Get
Ame 1	x 1/2 by	milar	provide the contract of the co	unburha
105/	mel B	H (west	- el u	uni y