~ ··	22	10	1	ľ
Ouestion	23	(3	marks	)

(a)	Write a balanced chemical equation for the complete combustion of 1-butanol.	1
5 (2)	C4420H months, >40 +540	
	Cythart Goras 402 1 5H20 W	

(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 <sup>-1</sup> )
A	-48
$\boldsymbol{B}$	-38
C	-28

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.

V = MW	"B > 00122mm/2 > 7867
= >-1.10	1 msl → 2
= 0-0175mals	20= 5810-8 W/57 WM
: A=> 0-0175muly ->	48 R) :(=> 0.0135md1, -> 28 k)
(mul -)	x /mul → x
x= 3555-5 mailk	>== 1014 1 kg/may
= Fuel Y	s a most litely 1-behave as its attis chosest
10 2G	10 KZ Mul