12. The diagram below shows the set-up used to burn hydrogen and collect the product.

4	date
Combostion tobe col anhydrous calcibm chloride.	wouless
(a) Why is hydrogen not readily used as a fuel?	(1mk)
(b) State one uses of hydrogen gas. - Manufacture of MHz / HCI - Italianna of oils - Read Rocker fuels	han and ignited, (1mk)
13. a) State Charles' Law. The velocine of a given is directly proportional	(1mk) mass of a gos to its absolute
temp. at constant pres	
b) A certain mass of a gas occupies 150cm ³ at 281K and 109.41k	Pa. What will be its
temperature if its volume is reduced by 16 cm ³ at 1Q1.325kPa.	(2mks)
<u>281×134×101,325 kg = 232.5</u>	K.
150 x 109.41 KPa	
14. 3g of iron reacted with hydrogen chloride gas at S.T.P. Cal	culate the volume of the
nydrogen chloride gas used (Fe-56 Molar gas val	2
tes + 2HCla > Fectas + Haga	9 70
56	0:1068 X 22:4.dm
15. Under certain conditions , chlorine gas reacts with sodium hypochlorite.	hydroxide to form sodium
a)Name the conditions under which sodium hydroxide read sodium hypochlorite.	(1mk)
Miliate Mach	
MaoH:	
b) State one use of sodium hypochlorite .	(1mk)
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