

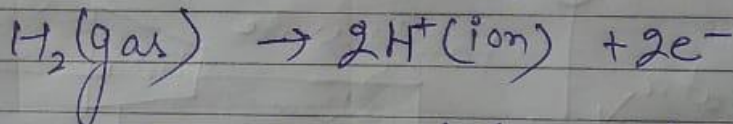
Section-2

3.3  
Fuel Cell :->

A fuel cell is an electro-chemical device that converts chemical energy into electricity and heat without combustion.

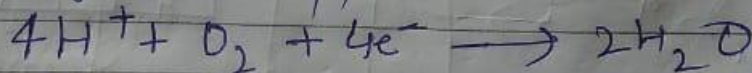
\* Working Principle of  $H_2/O_2$  :->

In fuel cells, platinum coated special graphite plates are used as the electrodes, separated by an electrolyte

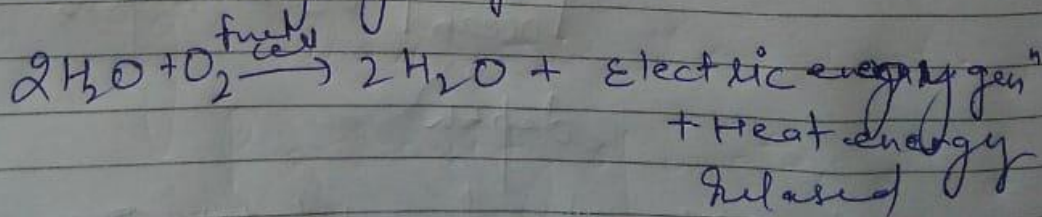


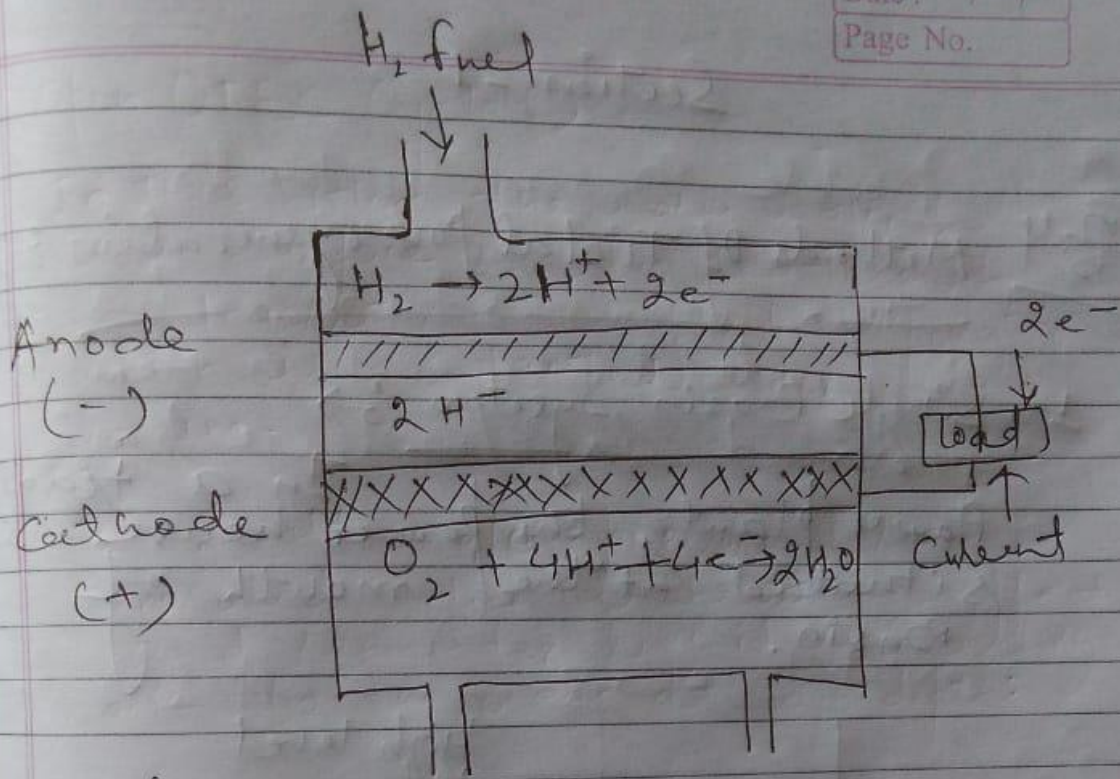
\* Electrons liberated at the anode.

\* Oxygen gas is supplied at the cathode



\* Electrochemical reactions coupled with movement of hydrogen ions.





### Fuel cell operation

\* Limitation of F.C →

The reactivity and invariance are the two general requirements for all fuel cells.

If the fuel cell is operated near room temperature, then it would deliver little electricity.