

B. M. P. College BANERJI DARPAN

C. CHAUDHARY CHEMISTRY

TOPIC:- ELECTRO CHEMISTRY.

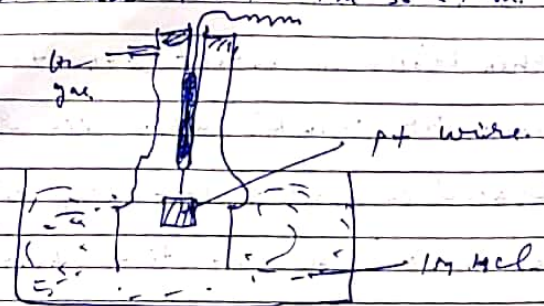
Platinum wire is connected

Glass tube having Mg wire, copper wire is in mercury. This electrode

Electrode potential of an electrode is measured with the help of standard Hydrogen electrode.

is in contact with pure H₂ at 1 atm. pressure and 1M H⁺ ion solution.

Since electrode potential of standard Hydrogen electrode is zero.

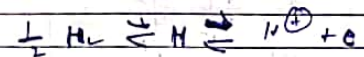


Both oxidation and reduction potential are equal in magnitude but opposite in sign.

Following chemical reaction takes

Reduction potential increases with increase in concentration and decreases with decrease in concentration.

place.



It is not thermodynamic property.

Absorbed H₂ gas at electrode acts as a metal. It dissolves as H⁺ ion in solution. H⁺ ion of solution is

STANDARD HYDROGEN ELECTRODE

converted into H₂. Therefore this electrode is reversible in respect to

It consists Platinum wire coated with finely divided Pt.

H⁺ ion. Electrode potential of this standard HYDROGEN ELECTRODE is zero.