

ai) i) Danjelle Gelle.

ii) Iron = anode = excidation. It is the reductor The flaw of electrons move from this negative terminal to the positive terminal.

Feet Section 1

Copper = cathode = reduction. It is the oxidat. The flow of electrons move towards this positive terminal.

Fies = Feet +2e. 0.44 V. +

cuat + 2e -> Cus). -0.34 V.

= 0. DV = Edell.

los Galvani - Experimented with frog's

lego to produce an electric current.

(no electrotatic charge) although

his theory concerning animal

electricity was disproved, his study

provided the frameworks for

electrophysiology and the biological ospects of electricity. Davy - Discovered that alkalis had an electric change and also discovered important earth elements (cn) etc tonstructed largest bothery Ever built & the "tavy lamp" to solate Beng Forardy = Studied and expanded one the field of electromagnicisms and provided his just law of electrolysis which stated that :- and "The quantity of a substance that is deposited, evolved or placed at an electrode during electrolysis 15 directly propositionals to the electrical currents flowing through the circuit." c) i) decrystallisation. ii) Wood - undergoes about 10 months of mechanical cleaning while it

is still tept moist in order to

make avoid a crystallisation of

the wood, where the water and

salt particles separate and the

salt crystallises disrupting the

wood's cellulose filones after

the cleaning process, the wood

is coated with resin and other

bequets.

Sele up and six miles were placed in each, along with the salk water solutions and a probestive layer existed on each nail to ablor to protect it from the presence of rust appearing on the nail, ig oil, salb solution, plain water, site. those nails were then left in open test—tubes for 6 weeks. The results were indicative.



ii) Acidia environments de increase
the rate of corrosion due to
the presence of the 4+ ions monting
the presence of the H+ ions monting with the oxygen & present at the
surface of the nature. The experime
-nt supports this hypothesis.

e) It would be hypothesised that, at greater depths, the rate of corrosion would be less due to the lack of oxygen and the overall pressure of the great depths. Wreaks that remain at the surface react with the oxygen in air. Pusting is an electroshemical process:

2Fe(H) > Fe 23. x H2(a) + (3-x) H2(a)