## Engineering Chemistry 2100031754 P. Sai omah

a) Adentify the type of corrolion and provide The mechanism involved.

And (i) Uniform Corrosion:

. Type: General Corrolion That ova the entire surface.

· Muhanism: Both anodic and cathodic reactions are spread evenly over the surface, causing the entire metal to deteriorate at a similar vate. Example: Ruting of steel in moist air, where iron realts uniformly with oxygen and water.

## (ii) pitting Cornsion:

· Type: Localized corrosion that result in small pits or holes.

Mechanism: Unally occur in the presence of chioride ions (eg., in seawater). small anodic areas develop, while the surrounding surfece aits as the cournode, leading to intense localize of corrosion. Example; stain les steel in chloride-rich environment cohere pits from due to chloride ions attacking the protective oxide layer.

s. Galvania Corrosion:

· Type: Corrosion that occurs when two dissimiles metals are electrically connected in an electrolyte

· Muhanism: The less noba metal (anode) Corrodes faiter, while the more noble metal is protected. elutions from the anode to the cathode, auelesating conssion of the anode

Gample: Consion of zinc in zinc-coated steel (galvonic steel) in water, where zinc aets a

a sacrificial anode. Marine de rementen.

Type Locatined convoices that i course pier or locker

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