

KW
20/12/21

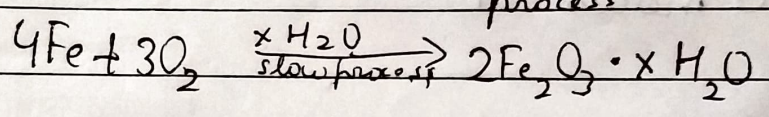
ASSIGNMENT

1) Mention the conditions for the rusting to take place. (2)

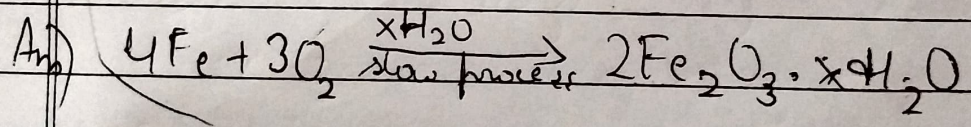
Ans) The conditions required for rusting are:-
presence of air and presence of ~~moist~~ moisture in the environment.

2) Write the chemical formula of Rust.

Ans) Chemical formula for rusting is
Iron + Oxygen $\xrightarrow[\text{slow process}]{\text{Atmospheric moisture}}$ Hydrated ferric oxide (rust)



3) Write the chemical reaction of Rusting.



4) Differentiate between Metals and Non-metals based on Hardness and Ductility.

Ans)	Metals	Non-Metals
	Hardness	

Metals

Hardness - Most of the metals are hard. (Exception: Sodium and ~~potassium~~ ^{potassium} are soft metals and can be cut with a knife)

Ductility - Metals are ductile i.e. they can be drawn into wires. Gold, silver, copper, aluminium and tungsten are the most ductile metals

Non-metals

Solid non-metals sulphur and phosphorus are soft. Whereas carbon in the form of diamond is the ^{hardest} naturally occurring ~~hardest~~ substance

Non-metals are not ductile. (Exception: Carbon fibre)