

Hw  
15.12.21

## Home Assignment Metals and Non-Metals

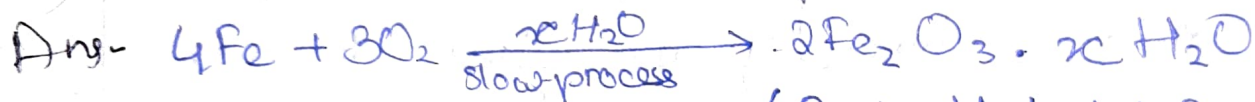
1) Mention the conditions for the rusting to take place.

Air and moisture are necessary for rusting.

~~The rate of rusting is also affected by the following activity~~

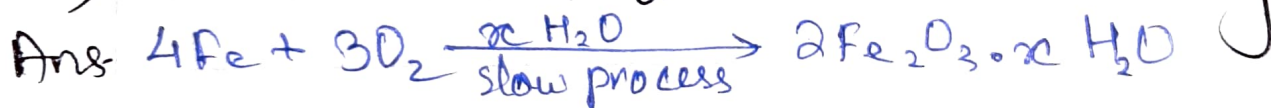
The presence of acidic gases such as  $\text{CO}_2$ ,  $\text{SO}_2$ ,  $\text{SO}_3$  and  $\text{NO}_2$  in the air increases the rate of rusting of iron.

2) Write the chemical formula of rust.



(Rust - Hydrated Ferric Oxide)

3) Write the chemical reaction of rusting.



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

	Metals	Non-Metals
Hardness	Most metals are hard. (Except Sodium and Potassium)	Solid non-metals sulphur and Phosphorus are soft (but carbon in form of diamond is hard).
Ductility	Metals are ductile.	Non-metals are not ductile (Except carbon fibre)