SHEET METAL

1 What is the full name of SWG, HR shoots, CRCA sheets, GI sheets?

SWG -> Standard Wire Grange

HR sheek -> Hat Rolled sheek.

CRCA sheek -> cold Rolled close Annealed sheeks.

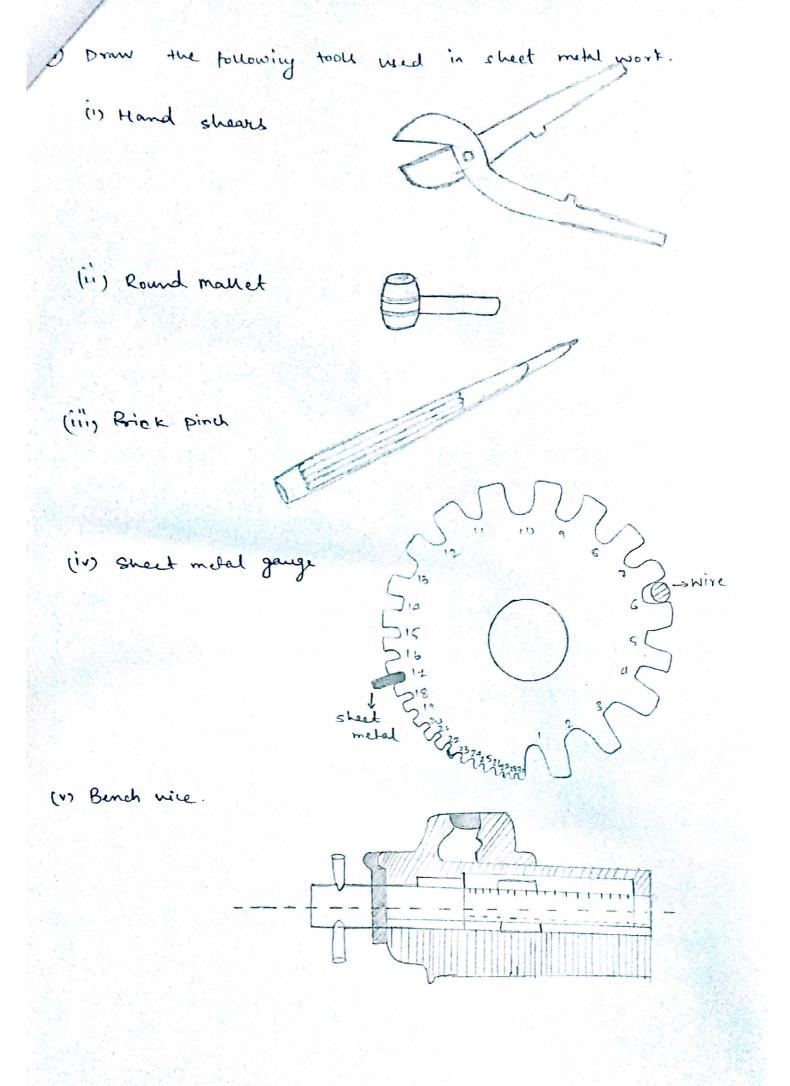
OI sheek - Galraniced Iron sheet.

1 Name various sheet metal forming processes and he took used to purform each of these process.

AM

- 1) Holding Bench wice
- ii) Bending Rolling modine
- 'iii) curling leaf bender
 - iv) seaming seamer
 - V) Remning Bralque Press
- 3 Name a few sheet metal working process and the tooks used to perform each of these process.

- Am is Measuring steel rubber
 - ii) Marking scriber
 - iii) cutting snip
 - iv) forming staker
 - y Joining Rivet set



WELDING SHOP

- O what is weldability?
- My Weldability have been defined as the capacity of being weild into inseposable pormanent joints having specified proporties such as definites weild strength & propor structure. It a particular metal is to have good weldability in fabricated structure. It can also refer to how a easy a difficult it is to achieve a functional weild.
 - Describe MMAN and Gas welding.

 In MMAN, one worlding a metal rod is used as an electrode (consumurable) while the work being metal is used as another electrode. The are is formed between the work and the electrode.

Gras welding: - Gras welding also known oxy-actylene gas welding is a mixture of oxygen and actylene, busins as an intense thame, at approximately 3500 degree centrigrade. It can be used for brazing, bronze welding, torging/shaping metal.

- 3 Describe three types of flames in Gas welding with sketch.

 Aug a) Neutral flames: It has two definite zone.
 - · A charp brilliant cone exceeding a snore distance from the tip of the torch it develops heat.
 - · Outer work or envelope only teintly illuminated and of a bluish whom . It prevents molten metals from oxidation. The neutral planne is used for cast ison, copper, aluminium etc.

(1) Care burning flame!

This flame has 3 somes!

- · sharply defined inner zone.
- · An intermediate core of whitish colour.
- · Bhich outer core.

The length of intermediate were is an indication of the proporties of access actylene in the flame.

- outer bluish core white intermediate - inner core

oxidising flame: -

It has excess of onlyen

It also has 2 zones namely-

- · The small inner our which has purplish whom.
- . The outer core or envelope. It is used to weigh brass, etc.



@ what are the function of the med in electroda? In high temperature metal joining process (welding, brazing and soldering), the primary purpose of the is to prement oxidation of the base and filler materials. Tin-lead solder (e-9) attaches very well to copper, but poorly to various oxider of copper, which form quickly at solding temporature It is just used to sweld the weld metal from the or & No of the our as doe it is being transformed across the are . It statilizes the one while welding.

Desvibe différent types of welding joint. , cap joint - It is used to join two overlapping plans so that the edge of each plate is welled to the confere

- · Butt joint Used to join ends as edges of too plates.
 or surfaces weated approximately in the same plate.
 - · Corner joint It is med to join the two to edges of two edges or plates where surface area at an angle approximately 90° to each other.
 - · Edge joint It is used to in joining the two parallel plake by the means of weild.
- 6 safety precautions in welding shop.
- . Welding should not be done around combustible or inflate inflamable materials where a sparks may cause

- . Face shield and hand gloves should be used while welding.
 - · calles should be properly insulated.
- . Machine should be twined off when leaving the work.