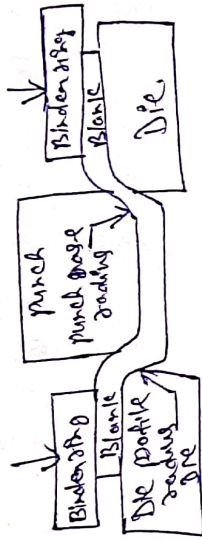


Section-2

Ques-2 A → Deep Drawing:-

① This process consists of plastic deformation of flat sheet into a recessed, three dimensional parts with a depth several times the thickness of the metal.



② One force hold the blank in its position while other force punch the sheet into shape

③ Various Deep Drawing operations:-

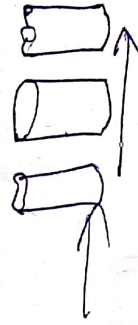
① Ironing:-

① This operation is used to reduce the thickness of the sheet wall and smoothened the surface.

② Redrawing:- If ratio of blank diameter and final cup diameter is too large, operation is performed in more than one stroke of the ram. These successive operation are known as redrawing.

③ Reverse Drawing:- In this operation, a drawn cup is subjected to bending in the opposite direction to its externally drawn direction.

④ Defects in Deep Drawing operation:-



- ① Earing:- It is the formation of ears or edges around the top of a drawn shell.
- ② Surface Scratch:- This occurs on the surface of a drawn cup.
- ③ Bulging:- This defect may appear due to increase in the diameter of cylindrical shell at some place of drawn shell.