

Section-4

Ans 2

Extrusion

- ① Extrusion is the process of confining metal in a closed cavity and then allowing it to flow from any one opening, so that the metal takes the shape of the opening.
- ② The operation is identical to the squeezing of tooth paste out of a toothpaste tube.

Types of Extrusion:-

- (a) Hot Extrusion:-
 - ① It is carried out above the recrystallization temperature.
 - ② Due to higher temp, involved special equipment is needed and the wear rates are high.

3) The various methods of hot extrusion are as follows:-

- (i) Direct Extrusion
- (ii) Indirect Extrusion.

(b) Cold Extrusion :- (1) it is carried out below the recrystallization temp. of metal being extruded.

(2) it could also be direct or reverse but extrusion ratio is lower and extrusion pressure is higher than the hot extrusion.

3) Following are the various cold extrusion processes:-

- (i) Impact extrusion
- (ii) Hydrostatic extrusion.