

Section-3

Ans 2) Resistance welding :- Resistance welding is a group of welding process wherein coalescence is produced by the heat obtained from resistance of the work off to the flow of electric current in a circuit of which the work is a part and by the applications of pressure. No filler metal is needed.

HAZ welding :- HAZ is the portion near the weld metal zone which is composed of parent metal and did not melt but heat to a enough high temperature for a sufficient period. Due to this heating, mechanical properties and microstructure of this zone have been changed.

Submerged welding :- In this kind of welding, the flux begins for depositing on the joint to the welded. whenever the flux is cold then it acts as an insulator.

2) once the flux is melted by the heat of the arc, then it will become highly conductive.

→ Soldering process :-

1) it is a method of joining two or more pieces of metals sheets by means of a fusible alloy or metal, called solder, applied in the molten state.

Brazing process

1) Brazing is used for joining the two similar or dissimilar metal pieces together by heating the surface and by using a non-ferrous filler metal having its melting pt. above 427°C . but below the melting pt. of metal to be brazed.