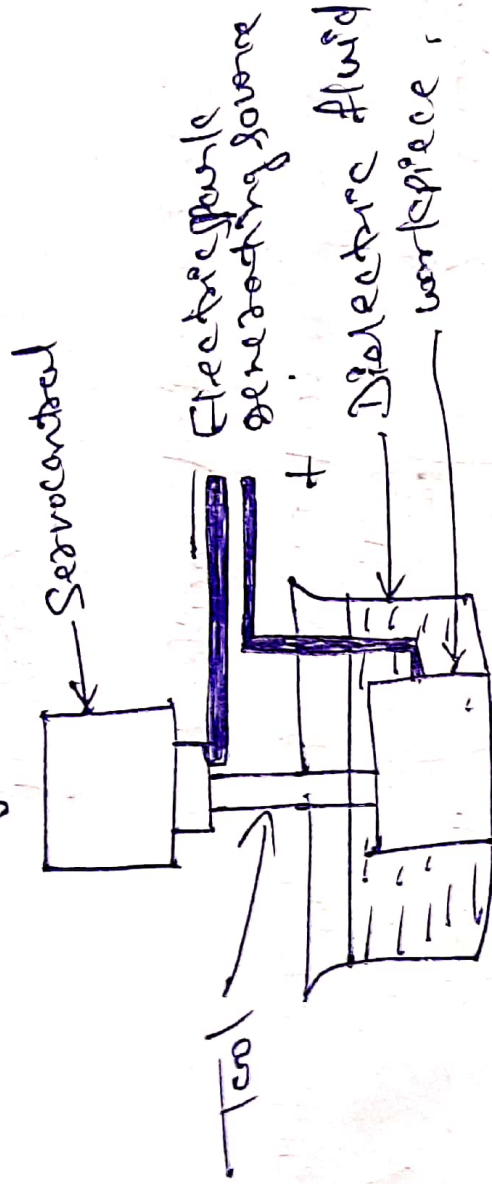


Section 5

Ans 1

Electrical Discharge machining :- (1) This process involves a thermal process that uses spark discharges to erode electrically conductive materials.

(2) When a discharge takes place b/w anode and Cathode, the heat generated near the zone which melts and evaporates the material in the sparkling zone.



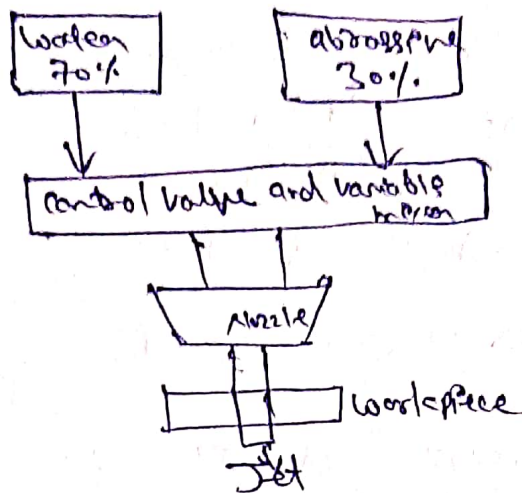
Abrasive water-jet :- (1) Abrasive water-jet machining (AWJM)

Fig. a non-conventional machining process.

(2) In this process, the mechanical energy of water and abrasive

Phases used to achieve material removal or machining

- ③ An abrasive jet, starts out the same as a pure water jet
- ④ As the thin stream of water leaves the nozzle, abrasive is added to the stream and mixed.



ultrasonic machining

- ① it is a mechanical type - non-traditional machining process.
- ② It is employed to machine hard and/or brittle materials (both electrically conductive and non-conductive) having hardness usually greater than 4000.

