

Section 2

Ans 2 - (A) Function of Condenser 1 -

- 1) Condenser is a device which is used to condense vapour into liquid state at a pressure below atmospheric pressure.
- 2) It converts the turbine exhaust steam into pure water.

B: Classification of Condenser 2 -

(a) Jet Condenser 1 -

- 1) Low level jet condenser,
 - 1) Parallel flow type
 - 2) Counter flow type.
- 2) High level jet condenser,
 - 3) Ejector jet condenser.

(b) Surface Condenser.

- 1) Central flow type
- 2) Down flow type
- 3) Evaporative flow type.

(c) Barometric Jet Condenser 2 -

1) It is also known as high level jet condenser. This barometric jet condenser is low level jet condenser except the column of water in tail pipe.

2) A long tail pipe more than 10/33 m in length is attached to both of condenser. This allows the condensate and the coolant to be discharged from the condenser under gravity action.

3) The main condensing part is kept at such a height that the inside pressure is equal to the steam pressure correspond to ambient temperature.

4) The discharge from the steam ejectors enters the intermediate condenser where the vapour is further condensed and the amount of air.