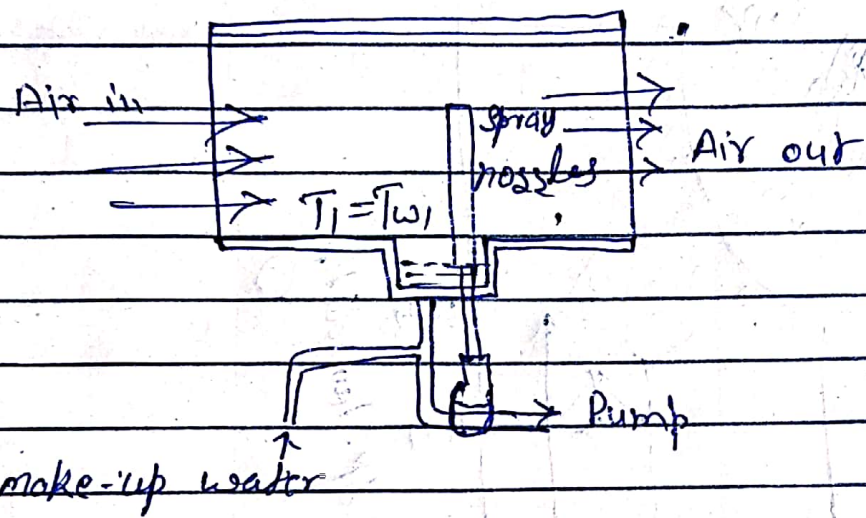
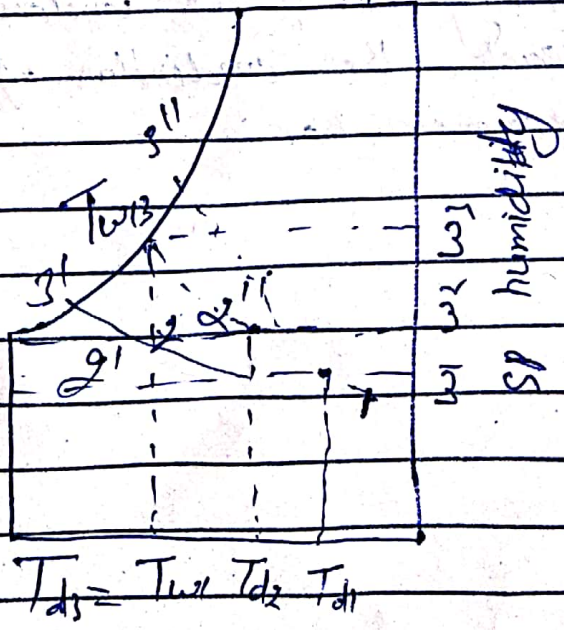


Answer

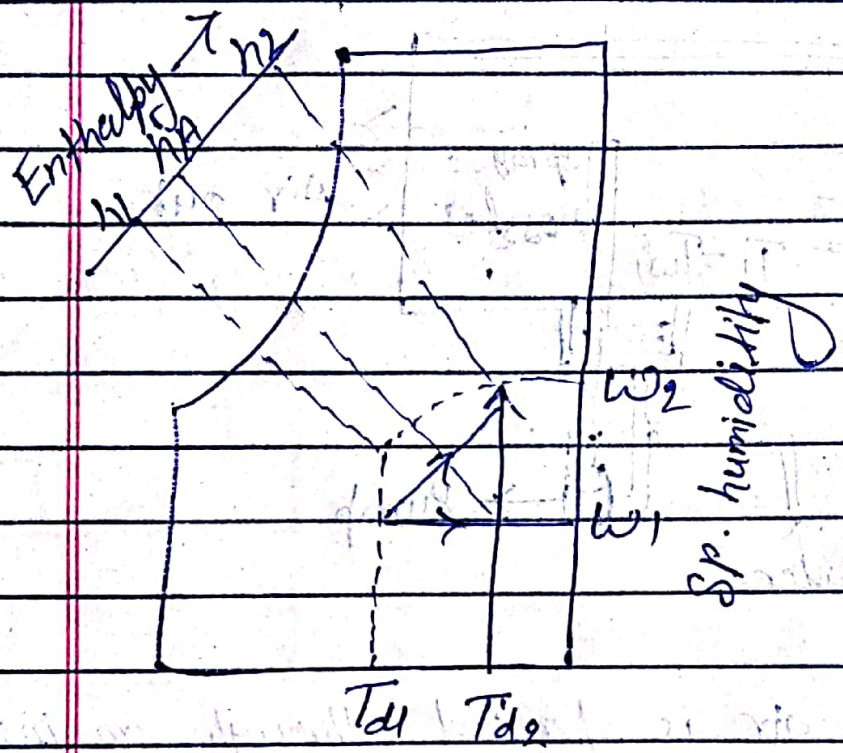
1) Cooling and Humidification:
Insulated chamber



When the air is passed through an insulated chamber having sprays of water maintained at temperature (T_1) higher than the dew point temperature of entering air (T_{d1}) but lower than its dry bulb temperature of entering air.



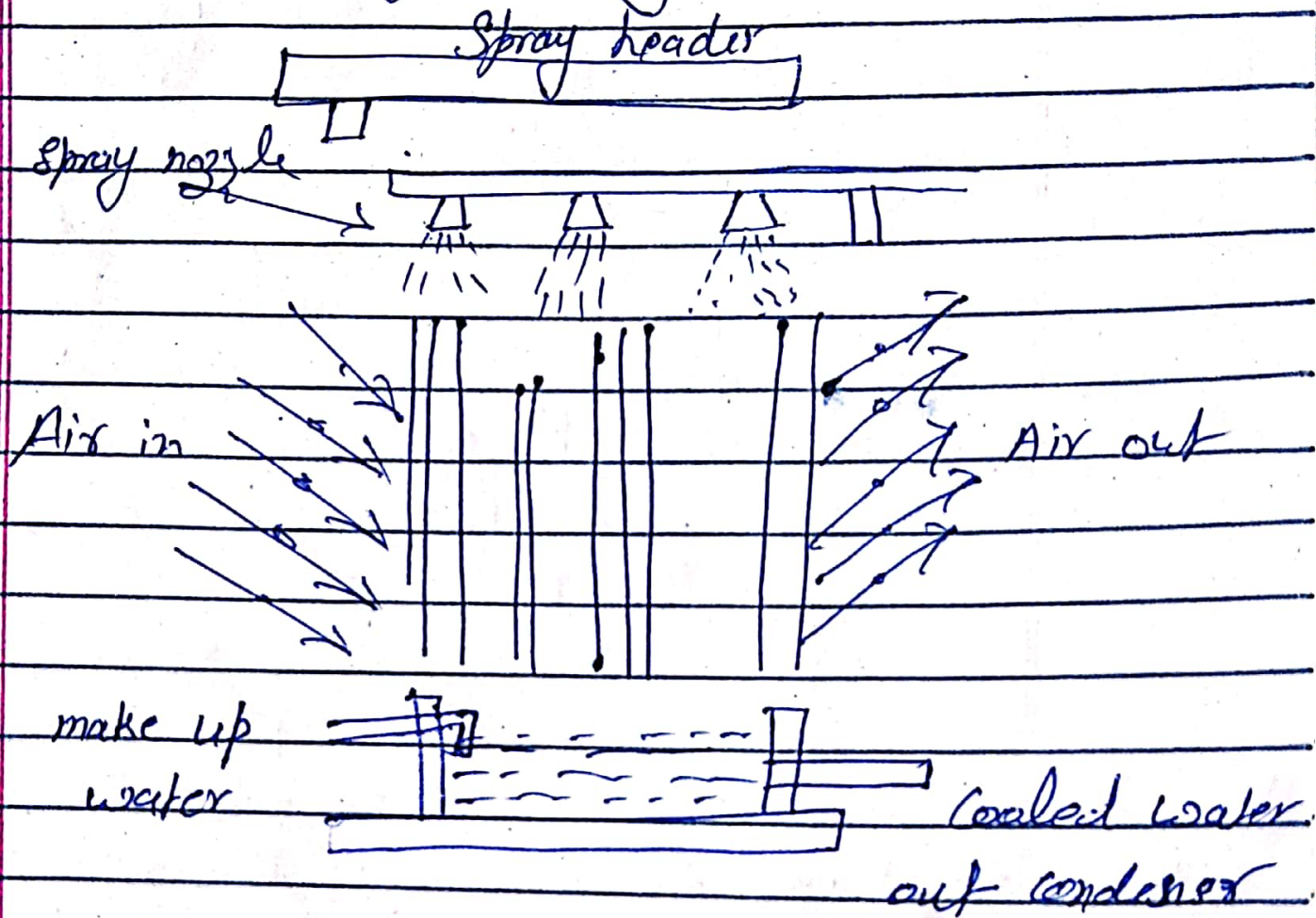
(b) Heating with humidification →



Dry bulb temperature →

When air is passed through a humidifier having spray water temperature higher than the dry bulb temperature of the entering air, the under stand air will reach the condition of saturation. becomes hot.

① Construction of cooling Tower



The atmospheric natural draft cooling tower as shown in fig (a) consists of a box-shaped structure with louvers