

# **Heat Transfer**

## **1) Heat Transfer**

It is the transfer of heat energy from higher temperature object to lower temperature object.

## **2) Conduction**

Conduction is the transfer of heat from one substance to another substance which is in physical contact with it, without movement of molecules of substance.

## **3) Convection**

Convection is the transfer of heat by movement of molecules or within fluid by mixing of one portion of fluid with other

## **4) Free Convection**

Heat transfer takes place due to density difference.

## **5) Forced Transfer**

Heat transfer takes place due to forced movement of fluid by using some appliance like pump or stirrer.

## **6) Heat Radiation**

Every substance emits electromagnetic radiation of certain frequencies in accordance with its temperature.

These radiations are thermal radiations. These waves carry away the energy from the emitting body.

## **7) Pre Vost Theory**

In Book