

Class XI, Thermal Radiation

The process by which heat is transferred directly from one body to another without requiring any medium is called radiation.

Some Important Points about Radiation:

- * All bodies (solid, liquid or gas) are continuously emitting energy in the form of the thermal radiation at every temp.
- * Radiation does not affect the medium through which it passes.
- * In process of Radiation, heat is transferred as E-M. waves - (Speed of EM wave in air/vacuum is $3 \times 10^8 \text{ m/s}$).
- * Radiation is the fastest process of heat transfer.
- * Radiation from a body depends upon
(i) its temp (ii) its open area (iii) nature of the body (surface)