

9/7/2020
THURSDAY

PHYSICS

STD - 8
class - 08

Assignment 09 Notes

Lighting effect of electric current

Incandescent lamps

- Why is the bulb filled with an inert gas/nitrogen?

Ans) The presence of these gases retard the evaporation of the filament in the bulb and make it possible to glow at higher temperature.

- What properties of tungsten make it suitable for being used as a filament?

Ans) * high resistivity * high melting point
* high ductility * ability to emit white light in the white hot condition.

- Nichrome is not used as filament in incandescent lamps. why?

Ans) When heated it remains only as red. white light is not emitted.

- What are the other types of lamps working on electricity?

Ans) • Discharge lamp • LED • Fluorescent lamp
• Sodium vapour lamp • CFL • Arc lamp

- What are the advantages of using discharge lamps instead of incandescent lamps?

Ans) • Loss of energy in the form of heat.

• more life span.

• no shadow formation.

• more light is obtained.

• less consumption of electricity.

• less environmental pollution.

- What are the factors to be considered when you select a bulb?

Ans) * More life span

* low cost

* less energy loss

* less environmental pollution

- Which are the lamps that are mostly used? why?

Ans) LED. Because it has low energy consumption, low energy loss, less environmental pollution.