



SNS COLLEGE OF TECHNOLOGY
(An Autonomous Institution)
COIMBATORE-35



1. Define radiation?

The heat transfer from one body to another without any transmitting medium is known as radiation.

2. Define emissive power?

The emissive power is defined as the total amount of radiation emitted by a body per unit time and unit area.

3. Define monochromatic emissive power?

The energy emitted by the surface at a given length per unit time per unit area in all direction is known as monochromatic emissive power.

4. What is mean by absorptivity ?

It is defined as the ratio between radiation absorbed and incident radiation.

5. What is meant by reflectivity?

It is defined as the ratio of radiation reflected to the incident radiation.

6. What is meant by transmissivity?

It is defined as the ratio of radiation transmitted to the incident radiation.

7. What is black body?

Black body is an ideal surface having the following properties.

- a. the black body absorbs all incident radiation, regard less of wavelength and direction.

8. State planks distribution law?

The relationship between the monochromatic emissive power of a blackbody and a wavelength of a radiation of a particular temperature

9. State Wiens displacement law?

It gives relationship between temperature and wavelength corresponding to the maximum spectral emissive power of the blackbody at that temperature.

10. State stephans boltzmen law?

The emissive power of the blackbody is proportional to the fourth power of absolute temperature .