

Some Important Questions and Answers

Q1. What is radiation?

Ans. The process of heat transfer through the emission of electromagnetic waves which carry energy.

Q2. What do you mean by solar radiation?

Ans. The word "Solar Radiation" is the electromagnetic radiation which is emitted by the sun. Solar Radiation drives the physical and biological cycles in reaching the earth.

Q3. What is extraterrestrial solar radiation?

Ans. The extraterrestrial radiation is the solar radiation which is incident outside the earth's surface. The extraterrestrial radiation is 1367 watts/m².

Q4. What do you mean by terrestrial solar radiation?

Ans. It is the electromagnetic radiation which originates from earth and its atmosphere. Terrestrial Radiation is a longer wavelength which is totally infrared.

Q5. Write the difference between beam radiation and diffuse radiation?

Ans. Beam Radiation is the radiation which moves through the atmosphere in a straight line without being scattered, reflected or absorbed by particles in the air.

Diffuse Radiation is the solar radiation which is being scattered, reflected or absorbed by the particles while passing through the atmosphere but ultimately reaches the earth's surface.