



Radiation is the transfer of heat through _____ without the need for a material medium

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- A. Electromagnetic waves
- B. Mechanical waves
- C. Seismological waves
- D. Chemical reactions

Show Answer...

Correct Answer: A (Electromagnetic waves)

Explanation:

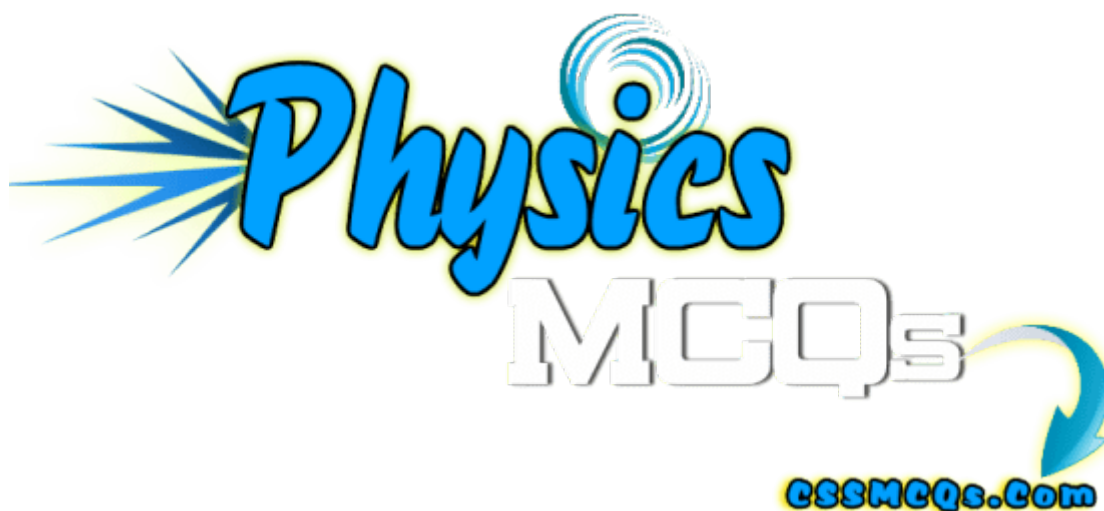
Radiation is the transfer of heat through electromagnetic waves without the need for a material medium. Electromagnetic waves are a type of energy that can travel through space and vacuum. Examples of electromagnetic waves include radio waves, microwaves, infrared radiation, visible light, ultraviolet radiation, X-rays, and gamma rays.

In radiation, the energy is transferred from the hotter object to the cooler object through the emission of electromagnetic waves. For example, the heat from the sun is transferred to the Earth through radiation. Similarly, a fire emits heat in the form of radiation, which is why you can feel the warmth from a fire even when you are not in direct contact with it.

Radiation is one of the three modes of heat transfer along with conduction and convection. While conduction and convection require a material medium, radiation can transfer heat through vacuum or space, making it an important mode of heat transfer in various applications such as space technology and communication systems.

In conclusion, radiation is the transfer of heat through electromagnetic waves without the need for a material medium, and it is an important mode of heat transfer in various applications.

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