

29. Carbon dioxide is a greenhouse gas because

- A. it absorbs infrared light radiated by the Sun.
- B. it absorbs ultraviolet light radiated by the Earth.
- C. its natural frequency molecular oscillation lies in the infrared region.
- D. its natural frequency molecular oscillation lies in the ultraviolet region.

**C**

Short wavelength radiation is received from the sun and causes the surface of the Earth to warm up. The Earth will emit infra-red radiation (longer wavelengths than the radiation coming from the sun because the Earth is cooler than the sun). Some of this infra-red radiation is absorbed by gases in the atmosphere and re-radiated in all directions.

Temperature of the Earth's surface will be constant if the rate at which it radiates energy equals the rate at which it absorbs energy.

**The greenhouse effect** is the warming of a planet due its atmosphere allowing in ultraviolet radiation from the Sun, but trapping the infrared radiation emitted by the warm Earth.

**The greenhouse gas** has natural frequency of molecular oscillations in the infrared region, so they easily absorb energy in that region.

When the frequency of the electric field is near to the natural frequency of an oscillation of the molecule, the amplitude will be high: The molecule absorbed energy from the field.

**Infrared radiation drives the vibration of the atoms; visible and UV radiation excites the electron cloud.**

The greenhouse gases like  $\text{CO}_2$  or several organic gases have natural vibration frequency in the infrared domain. They absorb it very strongly. On the other hand, they are transparent for visible and UV light. So the visible and UV light arrives to the surface of the Earth, and is absorbed by metals, rocks, soil, and the leaves of the vegetation and also by waters. The molecules can re-radiate the absorbed energy, but it is more probable, that they collide with other molecules and excite vibrations. These vibrations emit infrared photons which can not go through the atmosphere, as the greenhouse gases absorb them.

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**RM Cervero**



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## **M13 1 Eng Hp1 Tz1** Book Review: Unveiling the Magic of Language

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