



WELCOME

SIGNIFICANCE OF PHOTOSYNTHESIS

TO
SIXTH SEMESTER STUDENTS

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SIGNIFICANCE OF PHOTOSYNTHESIS

- It was the evolution of photosynthesis that transformed the primeval anaerobic & reducing atmosphere to the present day aerobic & oxidising one.
- It is the only biological process which evolves molecular oxygen for all aerobic organisms
- It caused the evolution of aerobic respiration & the emergence of aerobic heterotrophs on earth.
- Photosynthesis directly or indirectly serves as the source of energy & carbon for all organisms.
- Plays a significant role in the purification of atmospheric air by releasing Oxygen to it & removing carbon dioxide from it.

- Photosynthesis brings about energy fixation & thereby initiates the dynamics of ecosystems.
- Photosynthesis builds up Oxygen in the atmosphere & thereby makes up the continuous consumption by aerobic organisms. It also provides oxygen for the formation & maintenance of the stratospheric ozone layer.
- Photosynthesis maintains more or less constant levels of O₂ and CO₂ in the atmosphere.
- Photosynthesis serves as a link between plants & animals.
- Fossil fuels, such as coal, petroleum & natural gas, are photosynthetic products.

A bouquet of vibrant pink roses with green leaves is positioned in the top right corner of the image. The background consists of vertical wooden planks with a light, natural wood grain.

Thank
you