

15-7-21

Q. What is meant by UV-C Technology? How does the technology work on handling corona virus? Discuss its various applications.

Ultraviolet light of between 200-280 nm wavelength is known as UV-C and is known to be harmful to cell tissue. While UV-A and UV-B are on the visible spectrum, UV-C is filtered out by the ozone layer. Generally, UV-C light 254 nm in wavelength is harmful to humans but UV-C with a wavelength of 222 nm is not considered to be as harmful to humans.

UV-C Technology in containing Sars-Cov 2

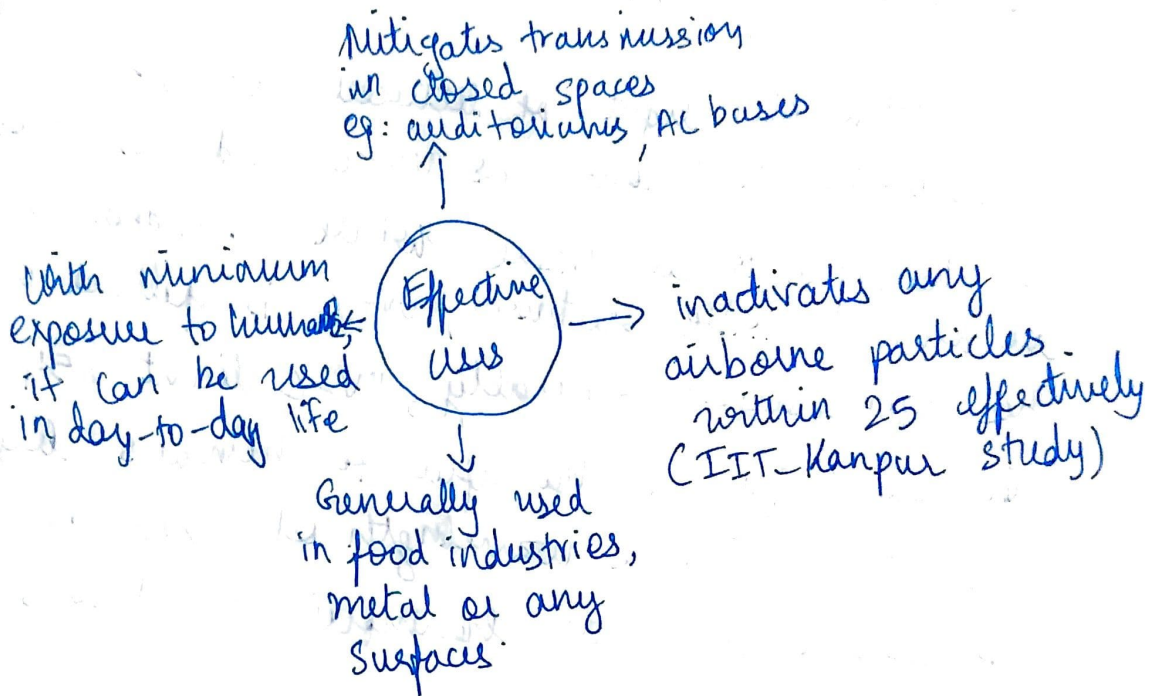
* UV-C air duct disinfection system developed by CSIR-CSIO is designed to fit existing air ducts to efficiently deactivate any aerosol or droplets of the virus using the UV-C light.

* It has a history of longstanding success in the hospitals, farming industries, laboratories, etc.

* Scientific Reports of June 2020 mentioned that UV-C radiation can destroy the outer protein of the virus thereby kills the virus.

* Far UV-C of 222 nm wavelength is effective.

Applications :



With the advent of technology and danger of debilitating diseases, technologies such as UV-C has to be adopted to keep the viruses and other potential unhygienic and contagious diseases at bay.