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B.A Part-2

Paper - subsidiary

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Lecture Series - 44

Topic: - Environmental Pollution

Environmental Pollution is one of the most serious problems facing humanity and other life forms on our planet today.

"Environmental Pollution is defined as 'the contamination of the physical and biological components of the earth / atmosphere system to such an extent that normal environmental processes are adversely affected.'"

Pollutants can be naturally occurring substances or energies, but they are considered contaminants when in excess of natural levels. Any use of natural resources at a rate higher than nature's capacity to restore itself can result in pollution of air, water and land.

Main Causes of environment Pollutants

Pollution can be classified as below:-

1.) Energy sector! - The leading source

of pollutant on the globe. The extraction of energy sources and conversion from one form to another has been rightly identified as the executioner of environmental uproar raised by the the vigilant humankind is becoming successful in curbing its role in environmental destruction. By the generation of Power, by Automotives, by consumption of fuels for domestic purpose all add to the pollution. Huge tonnages of carbon dioxide to increase the greenhouse gas emissions, sulphur oxides and nitrogen oxides leading to acid rains, heavy metal like Mercury, antimony, arsenic leaching to water sources, even gigantic quantum of Particulate emission are few notorious pollutants of energy sector.

Agriculture sector :- Around 13% of the pollutants are emitted from agriculture sector. Methane emission from biomass and Nitrogen oxides formation from fertilisers are the silent pollutants.

3.) Nuclear pollutants :- Nuclear sources are the most feared pollutants of this generation. starting from Hiroshima

and Nagasaki of the war cruelties to the peaceful annihilation of three mile islands, Chernobyl to the recent Fukushima incidents have aggravated this fear. Advancement of technology and statistical data in favour of nuclear accidents could not do much to improve this sentiment.

The natural probability of failure of any fault free systems, as understood by humankind makes all claims of the technical world to convince them against another imminent nuclear disaster - Again, the history of failure of advanced technological show pieces like Titanic is still haunting them.

4. General Industry and traffic - noise pollution, water pollution, thermal pollution are mainly contributed by industry as well as traffic.