





**ME09 : Impact of Environment Degradation on Humans**

**IMPACT OF ENVIRONMENT DEGRADATION ON HUMANS**

**GREENHOUSE EFFECT:** The greenhouse effect is a natural process that warms the Earth's surface. When the Sun's rays hit the Earth, they heat the land and water. The heat is then transferred to the air and the ground. The air and ground then radiate the heat back to the Earth, trapping it and making the Earth warmer.

**IMPACT ON HUMANS:** The increase in quantity of carbon dioxide in the atmosphere due to human activities is causing global warming. This leads to a rise in the average temperature of the Earth. The rise in temperature causes the melting of glaciers and ice caps, leading to a rise in sea levels. This could cause flooding in coastal areas and the loss of homes and jobs. The depletion of ozone has caused the formation of holes in the ozone layer, which allows more ultraviolet rays to reach the Earth's surface. This can cause skin cancer and other health problems.

**HEALTH PROBLEMS:** The heat stroke is a life-threatening condition that occurs when the body's temperature rises above 104°F (40°C). It is caused by exposure to high temperatures and/or direct sunlight. Symptoms include dizziness, nausea, and a rapid heartbeat. If left untreated, it can lead to organ failure and death.

**DEHYDRATION:** Dehydration is a condition that occurs when the body loses more fluids than it takes in. It can be caused by a variety of factors, including hot weather, exercise, and illness. Symptoms include thirst, dry mouth, and fatigue. Severe dehydration can lead to kidney failure and other complications.

**SKIN CANCER:** Skin cancer is a type of cancer that starts in the skin. It is caused by damage to the DNA in skin cells, which can be caused by exposure to ultraviolet radiation from the sun. There are three main types of skin cancer: basal cell carcinoma, squamous cell carcinoma, and melanoma. Early detection and treatment are crucial for a good outcome.

**ME10 : Non-Conventional Sources of Energy**

**NON - CONVENTIONAL SOURCES OF ENERGY**

**WIND ENERGY:** Wind energy is a clean, renewable source of energy. It is generated by the kinetic energy of the wind, which is captured by wind turbines. The turbines convert the wind's energy into electricity.

**SOLAR ENERGY:** Solar energy is a clean, renewable source of energy. It is generated by the sun's rays, which are captured by solar panels. The panels convert the sun's energy into electricity.

**HYDRO ENERGY:** Hydro energy is a clean, renewable source of energy. It is generated by the flow of water, which is captured by hydroelectric dams. The dams convert the water's energy into electricity.

**WIND TURBINE:** A wind turbine is a device that converts the kinetic energy of the wind into electrical energy. It consists of a tower, a nacelle, and three blades. The blades are rotated by the wind, and the rotation is transferred to a generator that produces electricity.

**SOLAR PANEL:** A solar panel is a device that converts the energy of sunlight into electricity. It is made of silicon and other materials. The sun's rays hit the panel, and the energy is used to create an electric current.

**HYDROELECTRIC DAM:** A hydroelectric dam is a structure that is built across a river or stream. It is used to generate electricity by capturing the energy of the flowing water. The water is stored behind the dam, and when it is released, it flows through a turbine that generates electricity.

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