



Presented By:

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Roll No.922

Environmental Issues and Economic Impacts



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Environmental issues

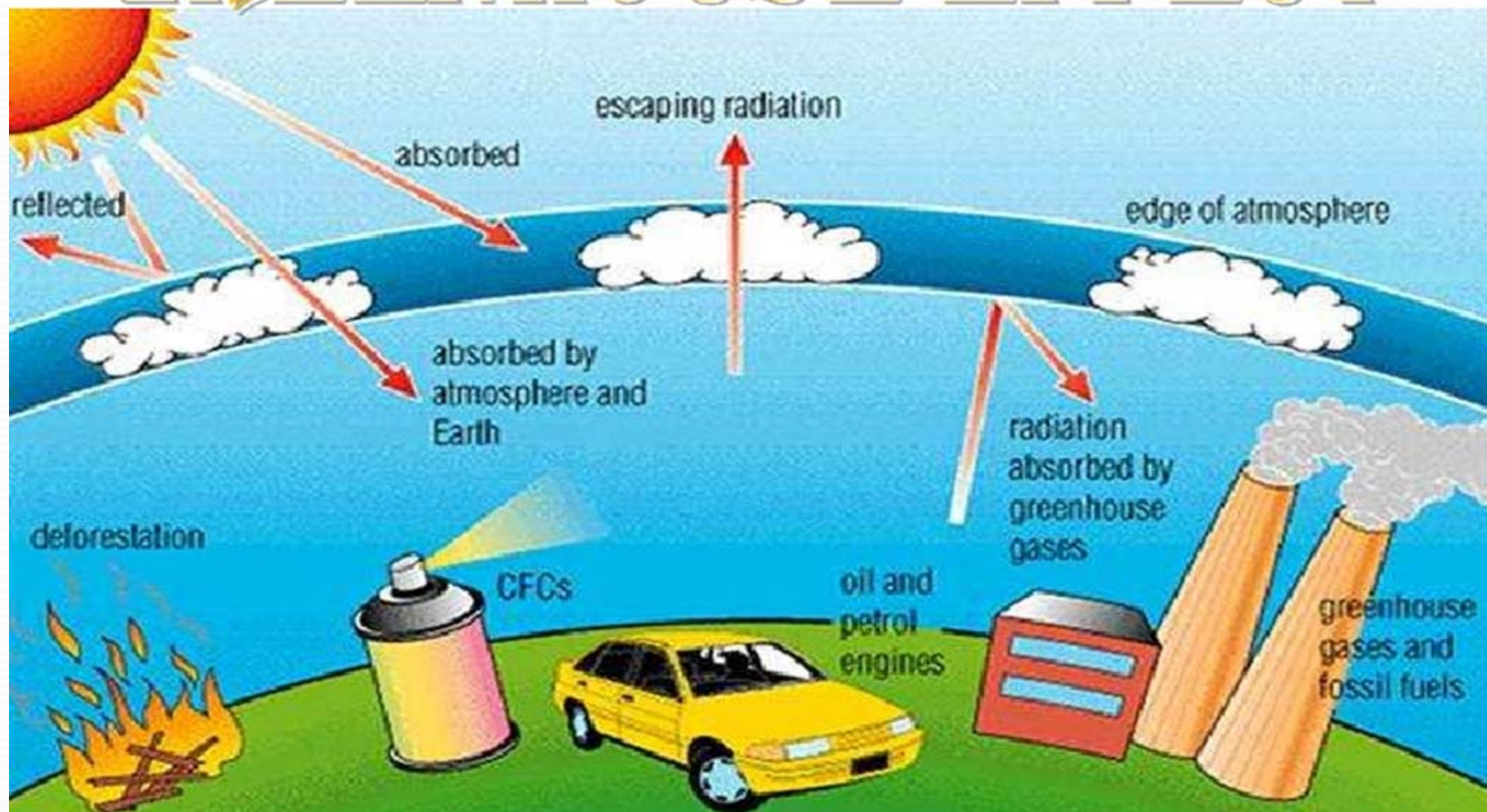
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Air-related Environmental Problems

➤ Green House Effect

- The greenhouse effect is a process by which planetary surface emits thermal radiations that absorbed by atmospheric greenhouse gases, and re-radiated in all directions.
- Greenhouse gases are Carbondioxide, Methane, Nitrous oxide, Sulphur oxides, Chlorofluro carbons, Water vapors.
- Rise in global temperature.

GREENHOUSE EFFECT



Economic Impacts

- Increase income inequalities between and within countries.
- A small increase in global mean temperature (up to 2 °C, measured against 1990 levels) would result in net negative market sector impacts in many developing countries and net positive market sector impacts in many developed countries
- **Non-market impact**
- Health impacts, those impacts contributed substantially to the total costs of climate change.
- **Market sector**
 - Agriculture
 - Fishery
- **Other sectors**
- Increased energy costs
- Coastal and storm damage
- Reduced food production
- Increased wild land fire costs
- Increased public health costs
- Lost recreation



Ozone Depletion

- Ozone depletion is the reduction of the protective layer of ozone in the Stratosphere by chemicals released on earth.
- The main chemicals that are depleting stratospheric ozone layer are chlorofluorocarbons which are used in refrigerators, aerosols, and as cleaners in many industries.
- The damage is caused when these chemicals release highly reactive forms of chlorine and bromine
- Ozone depletion cause Skin cancer, Eye damage, Immune system damage, Reduction in phytoplankton, Damage to the DNA in various life-forms.



Economic Impacts

- Ozone layer depletion affects agricultural products.
- Disturbing the airways industries.
- Tourism industry is affected.
- More importantly economic impacts are not that large compared HUMAN AND ENVIRONMENTAL LOSSES INCURED TO THE WORLD.
- Increase disease and cancer requires the cost of hospitalization.

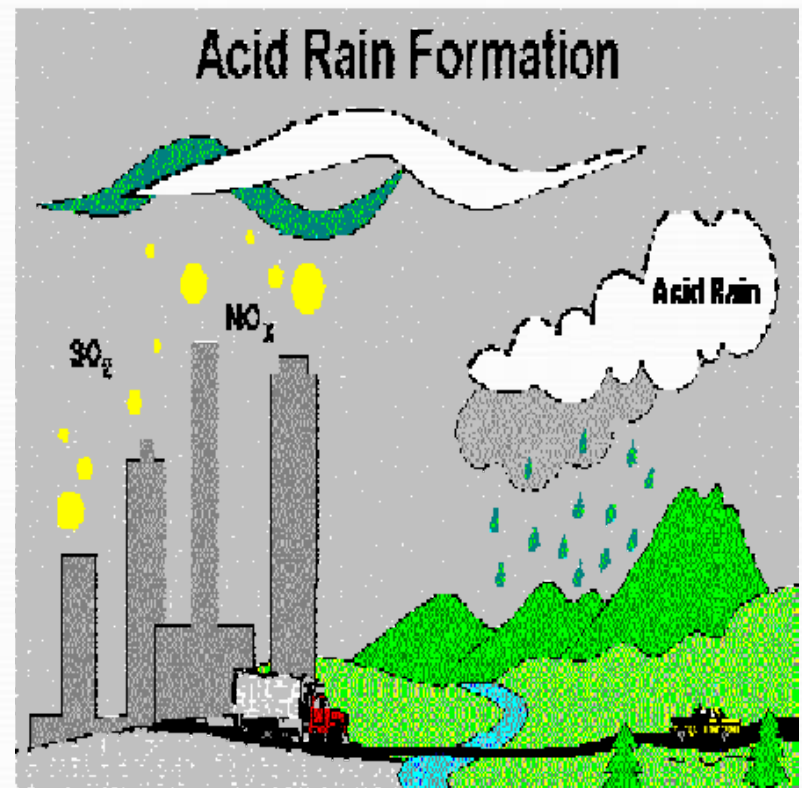
Water-related Environmental Problems

Acid Rain

- The burning of fossil fuel, the natural process of lightening and volcanoes, chimneys of factories and automobiles leads to the atmospheric emission of CO_2 , NO_x and SO_x . These gases react with water and oxygen to make carbonic, sulfuric and nitric acids.
- It is the precipitation of 5.6 pH.

The deposition of acids can:

- Damage forests and soils
- Causes acidification of water bodies
- Disturb wildlife
- Impact on human health
- Erode of stons, rocks, steel, metals and paints to peel off



Economic Impacts

- Acid rain = acidic water = less fish = less money for fisherman = less money to spend and there for effecting the economy.
- Acid rain= damaged buildings=claims on insurance = less money for insurance company and there for effecting the economy.
- The economic cost of property damage caused by sulphur dioxide.
- While the costs of reducing automobile emissions nitrous oxide are higher.



Marine Pollution and Acidification

- Marine pollution is due to the different factors, which are inefficient and / or inadequate wastewater treatment, urban run-off, eutrophication, solid materials, especially plastic, create a huge nuisance.
- On the other hand, Marine acidification refers to the effect of anthropogenic carbon dioxide on the pH of the oceans

Economic Impacts

- Economic loss in commercial fisheries like mollusks, and potentially reduce harvests of economically important predators
- The catch, net and other equipment could be contaminated by oil containers, paint tins, oil filters and other chemicals.
- Large items such as wires and old nets may be collected off the seabed and may damage the nets.
- If 50% of the Shetland fishing fleet was affected in the same way, which affect the income of local industries.

Land-related Environmental Problems

Problems arising from Inefficient Land Use

- I. Urban sprawl
- II. Habitat Fragmentation
- III. Habitat destruction

Economic Impacts

- Increased community costs for maintaining roads, school bus routes, sewers, and other services needed when businesses and residences are spread out.
- Ongoing increases in property taxes to meet growing need for services.
- Increased cost and difficulty of providing public transportation.
- Loss of agricultural and forestry jobs, and traditional land practices.
- Reduction of rural character or community sense of place.

Problems arising from Land Pollution and Degradation

I. Desertification

II. Land pollution

III. Soil pollution

- **Economic Impacts**
- Siltation of dams.
- Sedimentation of waterways.
- Damage to irrigation infrastructure and pumping equipment.
- Contamination of drinking water reserves.
- Increased frequency of flooding events.
- Increased dust concentrations.
- Impact on the aquatic environment.

Other Environmental Problems

Inefficient Use of Resources and Energy Crisis

- Resource depletion is occurred.
- Few of the principal causes of resource depletion are:
 - Over population, land conversion, pollution (air, water, land, soil, etc.), wastage and over consumption.
 - Factors like human development and activities (mining, logging, factories and industries, intensive farming, deforestation, etc.) as well as consumerism, are in turn cause and effect of inefficient resource management

Economic Impacts

- Energy is the resource used to exploit all other resources.
- When energy markets fail, an energy shortage develops.



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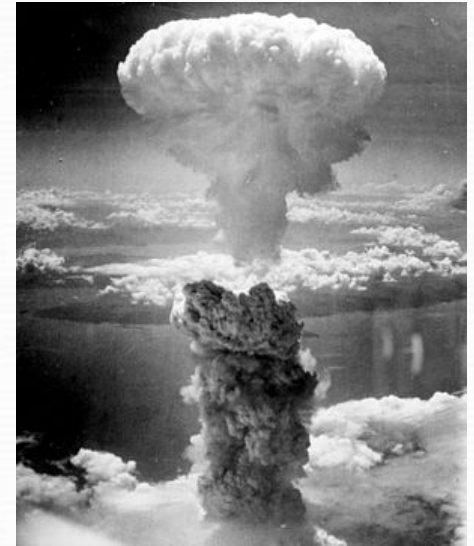
- Industrialized nations are dependent on oil, and efforts to restrict the supply of oil would have an adverse effect on the economies of oil producers.
- For the consumer, the price of natural gas, gasoline (petrol) and diesel for cars and other vehicles rises.
- An emergency may emerge during unusually cold winters due to increased consumption of energy.

Nuclear Development

- The most alarming aspect of nuclear development is the prospective nuclear accidents that can take place.
- Nuclear radiations are probably the deadliest of all.
- They do not just affect us, they can affect our future generation also.
- Nuclear weapons leads to the release of radioactive material into the environment.
- This radioactive material affects human health and the natural environment.

Economic Impacts

- The Three Mile Island accident effectively ended the nuclear power industry in the U.S. No new nuclear power plants were approved.
- As a result, the U.S. lost the engineering ability to build new plants.
- The economic cost of the Three Mile Island disaster is nowhere near the cost of other nuclear power plant disasters.
- Japan's nuclear meltdown could cost \$200 billion.
- The Chernobyl nuclear disaster cost in the hundreds of billions of dollars.
- Hurricane Katrina was the most expensive U.S. disaster, costing between \$125 billion to \$250 billion. It knocked GDP growth to 1.3% in the 4th quarter 2005.



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