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# CAUSES OF POLLUTION

# DEFORESTATION:

- In India, at present approximately 19% of total land is forest area.
- Causes of deforestation are-
  - increase in use of timber.
  - fuel wood.
  - construction.
  - for cattle grazing.
  - for agricultural or industrial purpose.
  - hydroelectric projects, dams, artificial lakes.



# DEFORESTATION:

- Deforestation causes-
  - biotic pressure.
  - affects water sources.
  - affects clean air.
  - cause uncontrolled flood.
  - land degradation.
  - disturbs carbon cycle i. e. photosynthesis.
  - threatens extinction of plant species.



# POPULATION GROWTH:

- Increase in population causes increased use of food water, air, fuel etc. which results in adverse effect.
- Density of population is not equal.
- Due to technical advancement, rate of using natural sources are increased without considering availability.
- Population growth is due to decrease in death rate & increase in birth rate.



# POPULATION GROWTH:

- Population growth resulted in-
  - shortage of food, water & fresh air.
  - excessive use of fuel & other natural resources.
  - increase in domestic pollution, sewage, wastage.
  - cutting of forests without creating new forests.
  - causes more problem like disposal of waste, slum area, increase in pollution etc.



# INDUSTRIAL DEVELOPMENT:

- New inventions are continuous since stone-age.
- In the beginning, inventions were for necessity & now it is for luxury, convenience & entertainment.
- Growing industries have caused increase in pollution.
- Industrialization results in increased use of chemicals, machines, mineral oil, improper methods of production, fertilizers, mining etc.



# INDUSTRIAL DEVELOPMENT:

- New techniques are used without considering or giving attention to environment.
- Release of various pollutants- Carbon dioxide, Carbon monoxide, DDT & other chemicals, dust, vapour, gases, Radioactive substance, smoke, smog etc.
- Industrial accidents.
- Causes air, water, land pollution due to gas, liquid or solid wastes & by-products.



# URBANIZATION:

➤ Caused due to-

- inhabitants of rural area coming to the urban area.
- landlessness.
- loss of job.
- attraction of white collar jobs in cities.
- disregard to rural life & manual work.
- population growth.
- change in value pattern.





# URBANIZATION:

- It denotes- industrialization, rapid development in transport & communication, development of trade & commerce, better mobility.
- Results in increasing slum area which causes pollution, improper sanitation & disposal of wastage, garbage.
- Also causes noise pollution.
- Reduction in greenery.
- Increase in construction of buildings, roads, dams, rail. road, & air transportation.



# MODERN PRODUCTIVE TECHNOLOGIES:

- 20<sup>th</sup> century is noted as the century of inventions.
- Plastics, chemicals & machines.
- More productive technologies for satisfying increasing needs of human beings in agriculture, industry & domestic aspects.
- Major pollutants are- synthetic fibers, plastic, petroleum products, textile industry, paper industry, fertilizers, chemicals, entertainment, globalization, use of land, air, ocean for transportation, agriculture & industrial use.



## ACCIDENTS:

- Accidents in industries, transportation & also natural or man-made calamities.
- Accidents in oceans of warships or oil containing ships.

## WAR:

- Weapons are used in massive extent & causes mass destruction.

## DOMESTIC POLLUTION:

- Use of fuel, wood, coal, kerosene etc.
- Use of detergent, soap, pesticides etc.
- Use of television, radio, music system & appliances.
- Disposal of solid waste.

## POVERTY:

- Root cause of almost all pollutions.

# CAUSES OF AIR POLLUTION:

- Industries.
- Automobiles.
- Metal industry, building materials, paints, pigments, textile chemicals, dyes, rubber & leather industry
- Thermal power station, coal using industries.
- Combustion.
- Earth moving operations.
- Industrial accidents, negligence.
- Earthquake, Volcano etc.



# CAUSES OF WATER POLLUTION:

- Dissolved chemicals in water percolated through soil.
- Fertilizers & Agricultural chemicals.
- Industrial disasters.
- Sewage water from metal mining industries, coal or sulphur mining, petroleum & natural gas drilling industry, stone crushing, clay supply industries, detergents etc.
- Water from slaughter houses.
- Municipal waste.
- Food processing industries, textile industries, paper & pulp industry, petro-chemical industry etc.
- Damage to sewage system, oil spread in sea.
- Disposal of dead bodies & plants.
- Natural calamities, flood, drought, earthquake.



# CAUSES OF LAND POLLUTION:

- Disposal of solid waste such as domestic or household waste, industrial waste, garbage, rubbish etc.
- Plastic- non biodegradable waste.
- Industrial & agricultural chemicals.
- Massive Industrialization.
- Improper Agriculture.
- Felling trees & deforestation.
- Construction of concrete jungle.
- Land slide.
- Mining.
- Drought, desertification, lack of rainfall.



# CAUSES OF NOISE POLLUTION:

- Industrial sources, cotton mills, workshops.
- Loudspeakers at temples, mosque, ceremonies, functions.
- Automobiles, horns, trains, aircrafts.
- Construction machines.
- Radio, television, music systems etc.
- Crackers.
- People's cry.
- Domestic appliances.
- Accidents.
- Natural calamities.



# CAUSES OF FOOD POLLUTION:

- Use of chemical fertilizers.
- Use of pesticides, insecticides, herbicides, fumigant.
- Improper processing & cultivation.
- Improper storage & transportation.
- Unhygienic personal maintenance.
- Improper sanitation.
- Improper methods of cooking.





# CAUSES OF RADIATION POLLUTION:

- Nuclear power plant/reactors/nuclear fuel.
- Nuclear tests carried by Defense Personnels
- Uranium mining
- Use of radio nuclides in industries
- Disposal of Nuclear wastes produced in laboratories, hospitals, radioactive materials, colour television etc.
- Clouds formed during atomic explosion contains radioactive materials & spread very fast all round



**Breakdown of Blood Brain Barrier**

**Increased Risk of Eye Cancers**

**Increased Risk of Ear Tumors**

**Increased Risk of Other Cancers**