

GOVERNMENT DEGREE COLLEGE KODANGAL
DIST :- VIKARABAD

PROJECT WORK

SUBJECT: ZOOLOGY

BATCH - 2021 - 2022

TOPIC :- POLLUTION

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LEC. IN. ZOOLOGY

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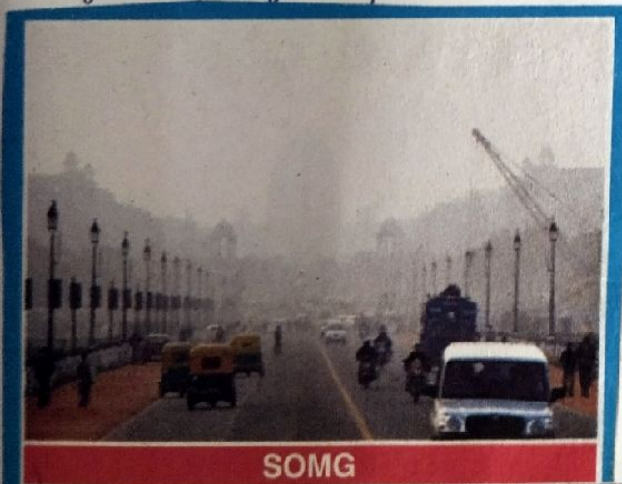
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POLLUTION

Introduction :-

Development activities like transportation and manufacturing use natural resources but also produce wastes that leads to pollution of air and ocean ; global warming and

Untreated or improperly disposed waste is a major cause of pollution of rivers and degradation causing ill health and low productivity . In this pollution types of pollutions can caused



Types of Pollution :-

Pollution is six types. Those are :-

- Air pollution
- Noise pollution
- Water pollution
- Soil pollution
- Thermal pollution
- Radiation pollution.



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POWER PLANT

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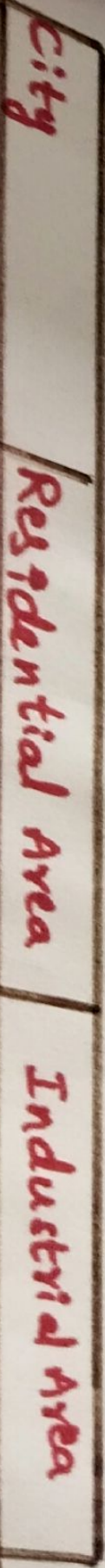
ution is a result of industrial and domestic activity. An ever increasing use of fuels in power plants, industries, transportation, construction of buildings, stone quarries, etc. leads to air pollution. Air pollution may be defined as the presence of any solid, liquid, or gaseous substance including noise and radioactive material in the atmosphere in such concentration as to be directly and indirectly injurious to human health and other living organisms.

POLLUTION

Pollutant	Sources	Effects
Suspended particulate matter	Smoke from domestic, industrial and vehicular soot.	Depends on specific composition reduces sunlight and visibility, increase corrosion, Pneumoconiosis, asthma, Cancer and other lung diseases.
Fly ash	Part of smoke released from chimneys of factories and power plants.	Settles down on vegetation, houses, Add to the suspended particulate matter in the air. Leachates contain harmful material.

Annual average concentration of pollutants in ambient air in residential and industrial areas (Year 2000) mg/m^3 in 24 hrs

SPM Permissible - residential $\pm 140-200 \text{ mg}/\text{m}^3$
 industrial $\rightarrow 360-500 \text{ mg}/\text{m}^3$



2. Noise pollution :-

Noise is the one of the most pervasive pollutant. A musical clock may be nice to listen during the day, but may be an irritant during sleep at night.

Noise by definition is "Sound without value" or "Any voice that is unwanted by the recipient." Noise in industries such as stone cutting and crushing, steel forgings, loud speakers, shouting by hawkers selling their wares, movement of heavy transport vehicles, railways and airports leads to loss of hearing which may be first temporary but can become permanent in the noise stress continues.

WHO has prescribed optimum noise levels as 45 dB by day and 35 dB by night. Anything above 80 dB is hazardous. Therefore the utmost important ~~is~~ that excessive noise is controlled.

ources of some noises and their intensity

Source	Intensity
Quiet Conversation	20-30 dB
Loud Conversation	60 dB
Lawn Mower	60-80 dB
Aircraft Noise	90-120 dB
Beat music	120 dB
Motor cycle	105 dB
Radio music	50-60 dB
Traffic Noise	60-90 dB
Heavy Truck	90-100 dB
Space vehicle	140-179 dB
Launch	140 dB
Jet Engine	140 dB



3. Water Pollution :-

"Addition or presence of undesirable substances in water" is called 'water pollution'.

Water pollution is one of the most serious environmental problems. Water pollution is caused by a variety of human activities such as industrial, agriculture, and domestic Agriculture run off laden with excess fertilizers and pesticides, industrial effluents with toxic substances and sewage water with human and animal wastes pollute our water thoroughly. Natural sources of pollution of water are soil erosion, leaching minerals from rocks and decaying of organic matter. Rivers, lakes, seas, oceans, estuaries and ground water sources, may be polluted by point or non-point sources. When pollutants are discharged from a specific location such as a drain pipe carrying industrial effluents discharged directly into waterbody it represents "point source pollution". In contrast Non-Point source pollution include discharge of Pollutants from diffused sources or from larger area such as agricultural fields, grazing lands, construction sites etc.



important sources of
 fertilizers and pesticides from agricultural use which
 each soil as run-off and long land filling by
 municipal waste are growing cause of soil pollution.
 plastic bags, biodegradable things are made from low
 density polythene, is virtually indestructible, create
 environmental hazard. This discarded bags
 environmental hazard. This discarded bags
 systems. leftover food
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