

Environmental Pollution

1. Introduction

“Environmental pollution that affects air, water and land is so full of dangers that it has destroyed civilizations. The civilization of Mesopotamia that flourished for eight thousand years, between rivers Tigris and Euphrates, was destroyed by water and land pollution i.e water logging, salinity and silt. The environmental pollution has also become number one problem of the modern world, including Pakistan.”

2. Kinds of Pollution

- a. Atmospheric Pollution
- b. Water Pollution
- c. Soil Pollution
- d. Noise Pollution

3. Damage done by various kinds of Pollution

- Destruction of ozone layer
- Acid rain
- Greenhouse effect
- Global Warming

4. State of Pollution in Pakistan

- a. Industrial
- b. Agricultural
- c. Urban
- d. Coastal Areas

5. Measure to control Pollution

- a. International
 - i. Earth Summit 1992 held at Rio de Janeiro
 - ii. Meteorological Research Studies on Pollution during 1995
 - iii. Kyoto Summit 1997
 - iv. Johannesburg Summit 2002

- o b.National

- o i.Legislative measures
- o ii.Participation to control pollution
- o iii.Checking unplanned industrialization
- o iv.Measure to stop the menace of Urbanizaiton
- o v.Population control

6. Factor responsible for Pollution

- o a.Unplanned industrialization
- o b.Incongruous transport
- o c.Garbage
- o d.Pressure horns
- o e.Fertilizers
- o f.Nuclear wastage

7. Remedies

- o a.Sound planning
- o b.Electrical transport
- o c.C.N.G
- o d.L.P.G
- o e.Industries away from cities
- o f.Decomposition of nuclear wastage

8. Conclusion

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1) Introduction

“Environmental pollution that affects air, water and land is so full of dangers that it has destroyed civilizations. The civilization of Mesopotamia that flourished for eight thousand years, between rivers Tigris and Euphrates, was destroyed by water and land pollution i.e water logging, salinity and silt. The environmental pollution has also become number one problem of the modern world, including Pakistan.”

Pollution can be defined as any thing which contaminates natural eco-system by activities of human being' or it could be written as 'Any thing which contaminates natural eco-system by activities of human being is termed as pollution.

2) Kinds of Pollution

- a. **Atmospheric Pollution** (release of CFCs, CO, CO₂, SO₂ etc, radiation from nuclear projects, photochemical smog and so on...)
- b. **Water Pollution** (agricultural run off i.e. fertilizers, pesticides; industrial releases i.e. leather tanning, chemicals, detergents etc.; domestic run off etc.)
- c. **Soil Pollution** (inclusive of solid waste; leaching of chemical and biological run off)
- d. **Noise Pollution** (caused by planes, vehicles, gramophones etc.)

3) Damage done by various kinds of Pollution

- a. **Destruction of ozone layer** (Chlorine is a major factor for breaking three atom molecule of Ozone (O₃) to make it a two atom oxygen (O₂). Major source of chlorine is CFCs)
- b. **Acid rain** (SO₂ is a major factor for making acid rain)
- c. **Greenhouse effect** (CO and CO₂ are involved for greenhouse effect)
- d. **Global Warming** (as (d) above)
- e. **Destruction of natural ecosystems** e.g. water, forest and land etc.
- f. **Health hazards to humans, animals/birds and plants**
- g. **Extinction of various species of flora and fauna by loss of natural habitat**

4) Status of Pollution in Pakistan (you may also discuss in the same sequence as you did in kinds of pollution e.g. Atmospheric pollution, solid industrial and domestic waste etc)

- a. Industrial
- b. Agricultural
- c. Urban
- d. Coastal Areas (please also include water pollution in our rivers and streams.)

5) Measure/proposals to control Pollution

a. International Level (This portion may placed in another heading namely 'International efforts to curb menace of pollution', because it does not correspond to 5 (b) 'national level.')

- i) i. Earth Summit 1992 held at Rio de Janeiro
- ii) ii. Meteorological Research Studies on Pollution during 1995
- iii) iii. Kyoto Summit 1997
- iv) iv. Johannesburg Summit 2002

b. At National Level (this sub-heading will be deleted after departure of clause (a) 5 as stated above)

- i. Legislative measures
- ii. Participation of people/general public to control pollution
- iii. Checking unplanned industrialization
- iv. Measure to stop the menace of Urbanization (urbanization is not a menace rather it leads to development of a country, however, un-planned/haphazard urbanization is a hazard)
- v. Population control

6) Factors responsible for Pollution (it will be very good if we put factors before making our proposals, so this 6 needs to come before 5)

- a. Unplanned industrialization
- b. Incongruous transport
- c. Garbage/solid waste
- d. Pressure horns
- e. Fertilizers and pesticides etc
- f. Nuclear wastage it may be nuclear waste

7) Remedies (in remedy portion, at first we need to answer the factors which are responsible for making pollution like for unplanned industrialization we need to have planned industrialization, simultaneously we need to write for counter steps to decrease for incongruous transport, garbage, pressure horns, fertilizers, nuclear wastes etc. You have rightly wrote for transport, industrialization, nuclear waster but making remedy for pressure horns, fertilizers and garbage left your attention. In this context, the best practice is to move sequentially i.e. answer/write remedy from point a and so on to b, c and d etc.)

- a. Sound/effective planning to decrease this menace
- b. Electrical transport ???? hmmm not humanly possible in our country
- c. C.N.G
- d. L.P.G
- e. Industries away from cities (proper planning for industrialization)
- f. Decomposition of nuclear wastage
- g. proper sanitation
- h. government needs to concentrate on making hydel and solar power plants instead of thermal and coal power plants
- i. afforestation/planting of maximum number of trees, this will be good to increase oxygen level and plantation near roads and airports act as sound barrier
- j. usage of NH₃/green gasses instead of CFCs in refrigeration and air-conditioning facilities
- k. forests/natural habitats of wild animals need to be kept away.

8) Conclusion/own view point (it may be good to give your own view point by re-arranging sentences from the essay)