

Q. NO. 2

(A)

FACTORS RESPONSIBLE FOR

ENVIRONMENTAL POLLUTION:

→ According to the definition;

“Environmental pollution can be described as a situation in which the environment contains **pollutants** in such **concentrations** which remains **harmful** to the human health, plants, animals, aquatic life, microorganisms, and to the environment as a whole.”

→ Followings are the Factors responsible for environmental pollution;

# FACTORS

## 2) Natural Factors:

- Volcanic Eruption
- Bacterial activity
- Radioactivity
- Wildfires

## 2) Anthropogenic Factors:

- Burning fuels
- CFCs
- Waste deposition in landfills.
- Industrial waste
- Oil spills
- Fertilizers.

Fig: Chart for factors responsible

## 1) Natural Factors:

- Natural factors refer to various activities which occur naturally and are responsible for the releasing of pollutants using any medium; air, water or land.

### (i) Volcanic Eruption:

- It emits a series of toxic gases into the atmosphere including sulphur and chlorine as well as particulate matter. It also impacts the water quality. Moreover, it causes land pollution as it damages crops and destructs

vegetation.

## (ii) Bacterial and Microbial Activity:

→ Their decaying process can release a variety of gases into the atmosphere especially methane gas ( $\text{CH}_4$ ) which at the end causes environmental pollution.

## (iii) Radioactivity:

→ The radioactive decay releases radon into the atmosphere.

## (iv) Wild fires:

→ Wildfires can cause air pollution and land pollution as well.

## (2) Anthropogenic Factors:

→ These are the factors which contribute to environmental pollution because of the manmade activities.

## (i) Burning different kinds of fuels:

→ The usage of non-renewable energy resources results in

environmental pollution. For instance, hydrocarbon gas released as a result of fossil fuel burning plays a vital role in the phenomenon of global warming.

### (ii) Chlorofluorocarbons (CFCs):

→ They disrupt the whole process of natural greenhouse effect as they have a very high global warming potential.

### (iii) Waste deposition in Landfills:

→ It results in pollution of land as well as water pollution.

### (iv) Industrial Waste effluents:

→ Since the beginning of industrial revolution, industrial wastes have been one of the biggest factors responsible for polluting the environment.

### (v) Oil spills:

→ The use of automobile engines is also attributed to environmental pollution.

\*vegetation\*

## vi) Fertilizers and Sewage-Agricultural Activities:

→ The use of pesticides as well as the whole process of its sewage results in water and land pollution. Moreover, the burning of crop residues has its part in air pollution.

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