

# EPZ / WATER POLLUTION (1)

Water pollution may be defined as the contamination of surface or sub-surface water by substances, which are harmful for living beings.

Parameters of Water pollution -

Water is said to be polluted when the following parameters reaches a specified concentration in water.

i) Physical Parameter -

- (a) Colour
- (b) Odour
- (c) Turbidity
- (d) Taste
- (e) Temperature

ii) Chemical Parameter - Amount of

- (a) Carbonate
- (b) Sulphates
- (c) chlorides
- (d) fluorides
- (e) Nitrates & metal ions

iii) Biological Parameter -

- (a) Algae
- (b) fungi
- (c) Viruses
- (d) protozoa
- (e) bacteria



## Sources of Water Pollution

(2)

Surface Water Pollution

Ground Water Pollution

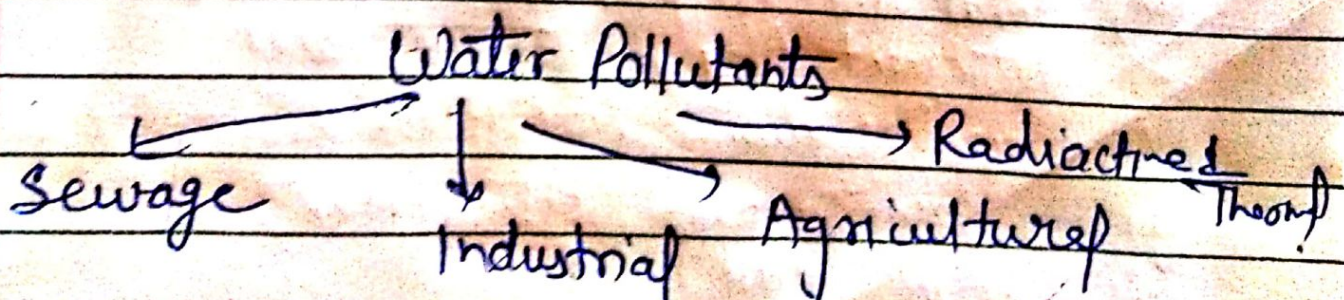
→ Point and Non-point Sources

→ Natural & Anthropogenic

→ Anthropogenic Sources

(A) Surface Water Pollution — When pollutants enter a river, stream or lake that gives rise to surface water pollution.

(B) Ground Water Pollution — When pollutant seeps into the ground & enters an aquifer, it results in ground water pollution.



Water pollutants → Harmful substances.



## Biological Effects of Water Pollution —

(3)

Date : .../.../...

Eutrophication → It results due to the release of large amount of nutrients by the action of aerobic bacteria on organic wastes entering a water body naturally or by human activity.