

Question No 1:

What is Air pollution? Discuss its causes and measurement methods. Name countries with highest and lowest percentage of it.

Opening Sentence:

Air pollution has been becoming a persistent challenge for the current world. It has a plethora of negative impacts, including respiratory problems and lung cancer.

WHO report 2020

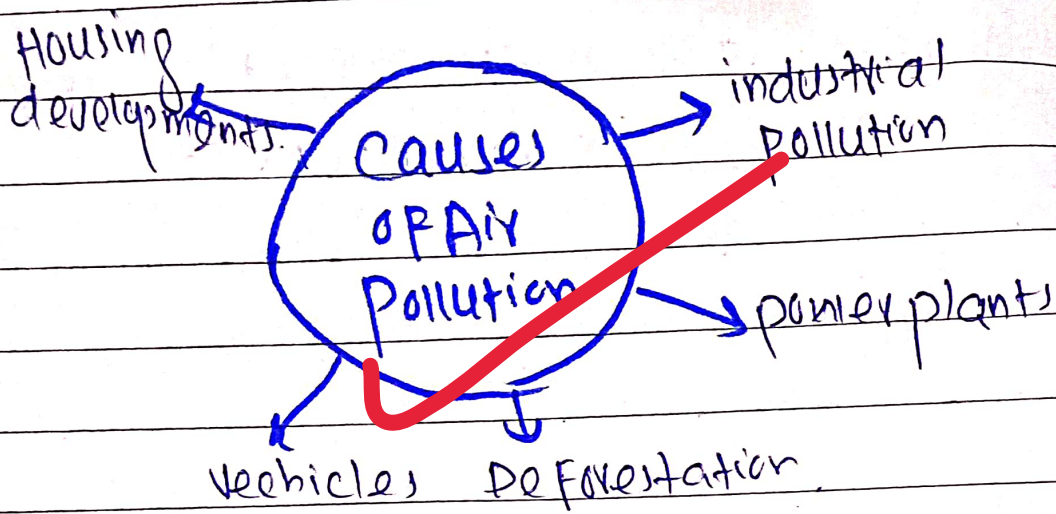
"Around 1.7 million people die annually due to air pollution"

What is Air pollution:

When harmful substance mix in air and impact on the health of the people it is known as air pollution. These substances are ranging from Carbon dioxide, Nitrogen oxide, etc.

Date: _____

Causes of Air Pollution:



(i) → **Industrial Pollution:** Industries generate toxic substance in air such as **Carbon dioxide**.

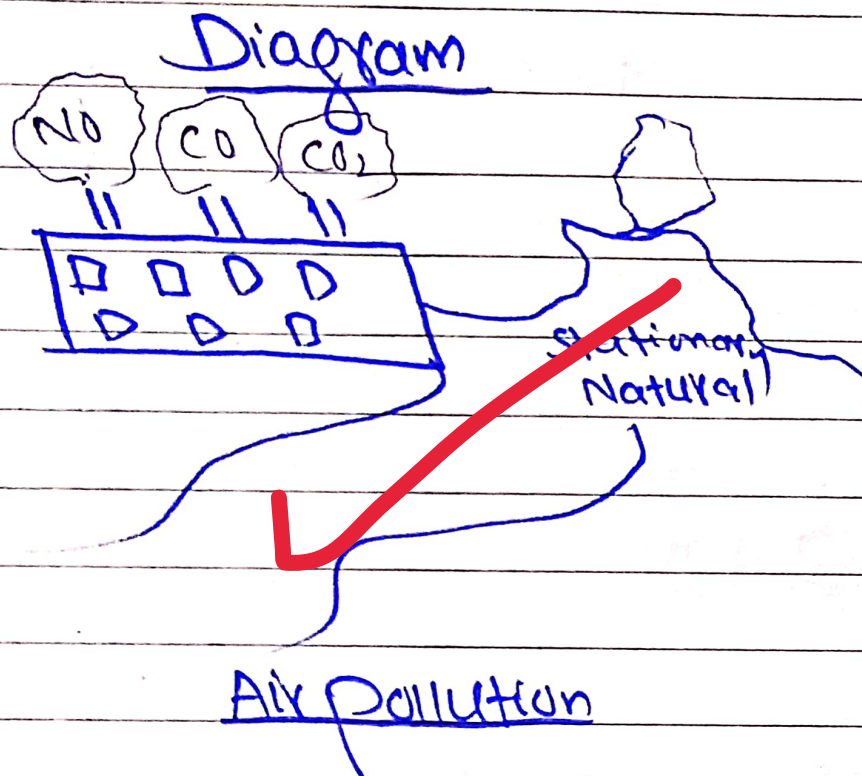
• (ii) **Power Plants:** power plants release toxic substance in air such as **Nitrogen oxide**.

(iii) **Deforestation:** cutting of trees impact on environment resulting in air pollution.

(iv) **Housing Development Programs:** Housing development programs are responsible for air pollution due to using heavy machines.

Date: _____

(4) Vehicles: The battery of vehicles are mainly operate on load. Hence it release carbon monoxide, impacting on health and causing air pollution.



Measurements to control
Air Pollution:

- (i) → Scrubber. (clean air)
- (ii) → Electrostatic precipitators (power plants)
- (iii) → catalytic method (use in vehicles)
- (iv) → Smog Tower (control flow of smog)

Date: _____

According to WHO report:

→ Highest percentage of pollution:
Bangladesh

→ Lowest percentage of air pollution:
Norway.

Date: _____

Question: 2

Define the term water pollution.

What indicators are used to measure the quality of water?

Water Pollution:

When a toxic substance such as chemical - pesticides and fertilizers - mix into water it create the water pollution and making water harmful for both human and marine life.

According to WHO Report.

" 1.7 bn people have no access to clean water."

Indicators used to measure the quality of water.

Indicators For Quality of Water

PH level	6 to 8.5
Turbidity	water should be clean not to be cloudy. (SNTU)
Coliform bacteria	There should be no coliform bacteria
Fluoride	0.5 to 1.5 mg/L
Heavy Metals	0.5 mg/L
Chlorine Residue	0.2 to 0.5 mg/L
Total dissolved salts	less than 1000 mg/L

According to WHO report

"Nigeria is the most affected country regarding water pollution".

Good answers!!