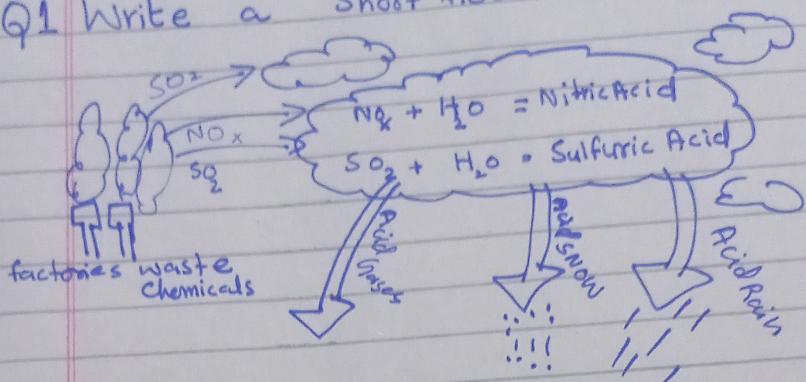


GSA (for Evaluation)

Q1 Write a short note on Acid. Rain.



Definition

Acid rain is rain or any other form of precipitation that is usually acidic, meaning that it has elevated levels of hydrogen ions, caused by a chemical reaction that begins with compound like ~~Sulfur~~ ~~dioxide~~ and Nitrogen oxides are released into air.

Causes of Acid Rain

The causes of acid rain are Sulphur and Nitrogen Particles which get mixed with the wet components of rain.

Sulphur and Nitrogen Particles which get mixed with Water are found in two ways

Acid rain caused
Man Made → Natural

According to the Royal Society
of Chemistry

(The wood acid rain was
invented by Scottish chemist
Robert Angus Smith in 1852.
Smith decided the wood while
studying water chemistry near
industrial towns in England.

④ Industrial Chemical Smoke

Power plants release the majority
of sulfur dioxide and much of
the nitrogen oxide when they
burn fossil fuels, such as, coal
to produce electricity, In addition,
the exhaust from cars, trucks
etc releases nitrogen oxide and
sulfur dioxide into the air.

③ Effects of Acid Rain

- Acid Rain is harmful for
agriculture, plants and animals
as it washes away all
nutrients which are required

④

Ph
In
Resu
m

survival of
for the growth and survival of agriculture
Plants. Acid rain affects agriculture
by it alters the composition of
the soil.

- It causes respiratory issues in animals and humans.
- It damages the building and monuments made up of stones and metals.

majority
of

say
, coal
addition.

sucks
e and
air

Taj Mahal, one of the 7 wonders
of the world, is largely affected by
acid rain. The city of Agra has many
industries which emit the oxides of
Sulphur and nitrogen in the atmos-
phere, $\text{CaCO}_3 + \text{H}_2\text{SO}_4(\text{l}) \rightarrow \text{CaSO}_4(\text{s}) + \text{H}_2\text{O}(\text{l}) + \text{CO}_2(\text{g})$
The formation of calcium sulphate
results in the corrosion of this beautiful
monument.

④ Prevention of Acid Rain.

- The only precaution that we can take

against acid rain is having a check against acid rain is having a check at the emission of oxides of nitrogen and sulphur.

Acid Rain is harmful to animals that is why our priority should animals do not live near by industries

Being responsible citizens, one should be aware of the harmful effects they cause and of the industries which give out nitrogen and sulphur compounds waste unethically

~~5~~