

General Science & Ability Past Paper Questions

Qno1 what does Ozone depletion means and how can we protect the ozone layer? (2019)

Ozone Depletion:

Ozone depletion mean the breakdown of ozone layer in atmosphere. Ozone layer is made of three oxygen molecules (O_3) which protect us from ultraviolet radiations of Sun. Due to some human activities (CFCs), a hole become in ozone layer over Antarctic Ocean in atmosphere (stratosphere). The ozone layer balance due to made of Sun energy and destroy due to chemical reactions of chemicals in atmosphere (CFCs).

Ozone depletion negatively impact on all over the world.

Ways to protect Ozone layer:

- (i) One major method to protect ozone layer from depletion is to reduce or completely abolish CFCs emission in atmosphere. we can use alternatives of CFCs to reduce their emission.
- (ii) Used scrubber in industries to filter gases before they emit in atmosphere.
- (iii) Use renewable energy sources to produce energy.
- (iv) Establishment of international agreements to make it more effective.

Qno.2. What is Acid Rain. Describe its causes and how it can be prevented?

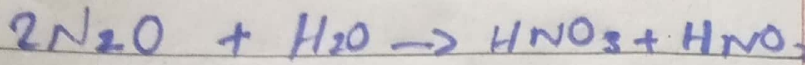
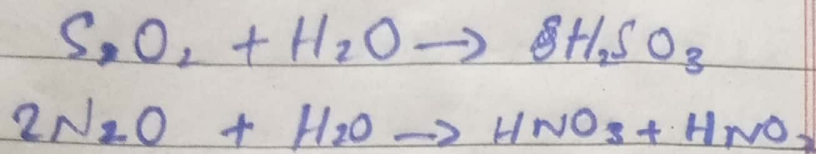
Acid Rain:

Acid Rain is a broader term mixture of wet and dry deposition of chemicals and contain excessive amounts of nitrogen oxide and sulphuric acid. We use pH scale to measure it. It has many negative effects on humans, animals, plants, infrastructure and health.

Causes:

When nitrous oxide and sulphuric oxide react with water and other atmospheric element, it cause nitric acid, sulphuric acid, nitrous acid and sulphurous acid; and makes rain

acidic.



Human activities emit these gases in atmosphere which cause acidic rain.

Way-Forward :

- (i) One main ~~re~~ mean to protect acid rain is to ~~reduce~~ reduce the emission of SO_2 and ~~N_2O~~ N_2O in atmosphere. By implementing advance technologies in industries and also at household level.
- (ii) Use of recycle and reuseable energy.
- (iii) Use of scrubber in automobiles which filter NO_x before emit in atmosphere.

- (iv) wise use of transport.
 (v) Reduce deforestation and enhance reforestation.

Q.3 Comment, Green House Effect is a blessing. Also discuss Enhanced Green House Effect and its relation with global warming. (2018)

Green House Effect:

Green House Effect is a combination of clouds, ozone, CO₂, water and many other elements which protect us from ultraviolet radiations of sun. It stop the rays of sun ~~energy~~ energy to reach earth with full intensity. It is a blessing of which save earthly creatures. But as industrialization is increasing, it also leads

Date: _____

Day: _____

to increase in GHGs like CO_2 , H_2SO_4 , methane, NO_3 etc. These are all gases are impacting GHE.

Enhanced Green House Effect:

The accumulation of GHGs in atmosphere is increased prior to 1980, they also has enhanced green house effect. Enhancement in Green House Effect is leading to global warming. Because the temperature on earth surface is increasing with passage of time it leads further into climate change.