

Question: 2

Part - a

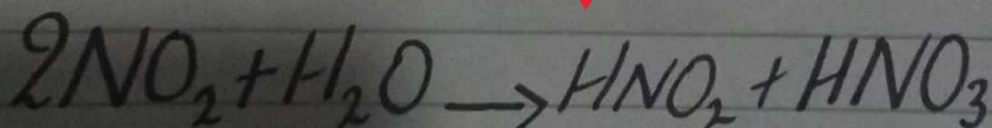
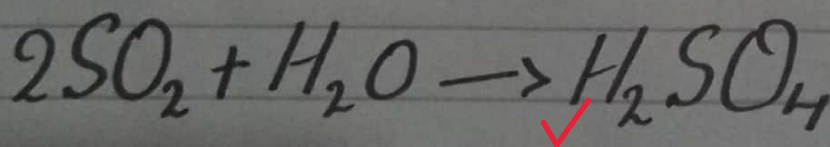
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Reasons: SO₂, NO_x Threat

Introduction

Sulphur dioxide as well as nitrogen oxides are dangerous for human, and for all living organism because, they react with wet and dry deposition in atmosphere and increased or enhanced the quality of sulphuric acid and Nitric Acid. Which ultimately become the reason of Acid Rain.

Chemical Reaction



These reaction of SO_2 and NO_x can become acid become usually in increasing nitric and sulphuric acid in atmosphere and that caused Dry deposition and Wet deposition which is particularly harmful for all on earth.

Conclusion

So the presence of SO_2 and NO_x becomes harmful for all living creatures on earth by deposition, which destroys agriculture, marine life, causes issues for wild animal and especially for hum. These elements, mostly react chemically with other pollutants and become the reason of Urban Smog. In a nutshell, the chemical reactions of SO_2 and NO_x leads to harmful effects for all.

Q # 2 (b)

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Green House Effect

Definition:

Green house effect is the process of emission and absorption of infrared radiations by gases in planet's atmosphere that warms its lower atmosphere and surface.

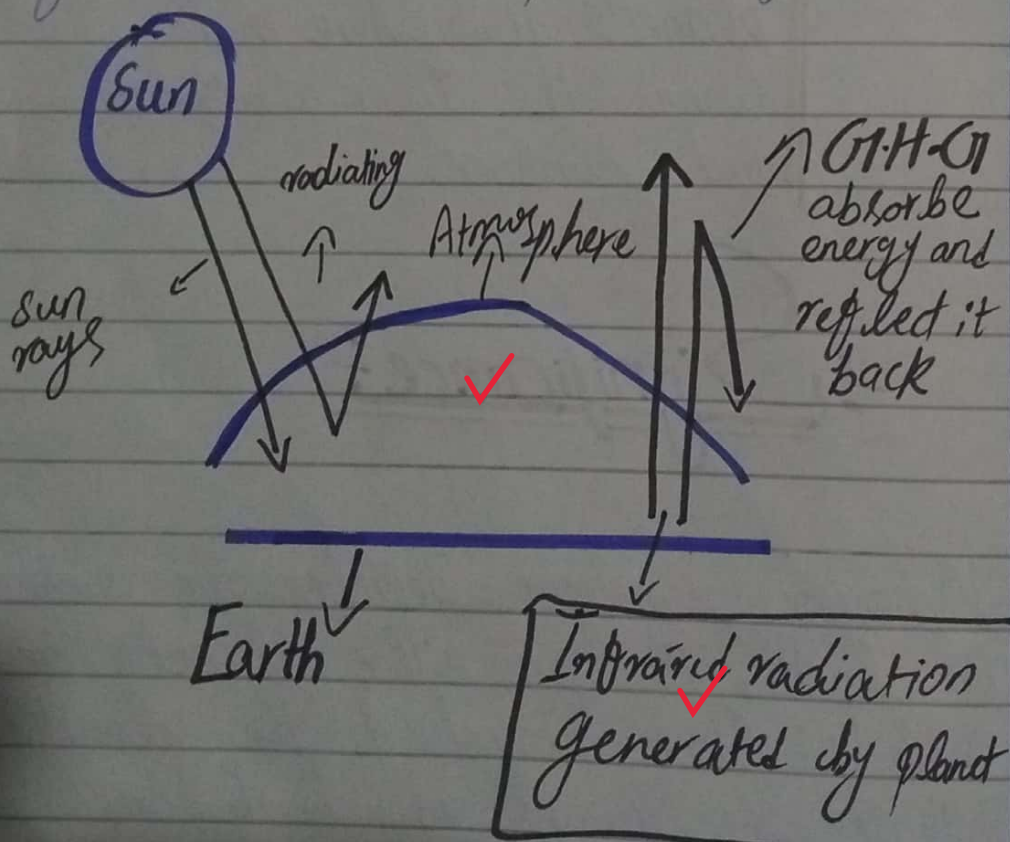
Significance:

Whenever sunlight reaches the surface of earth, it can either absorb or reflect. Once absorbed, the planet releases the energy as heat (called infrared radiations). The green house gases absorb the energy and slow

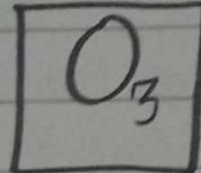
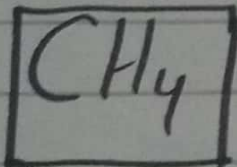
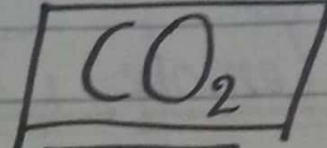
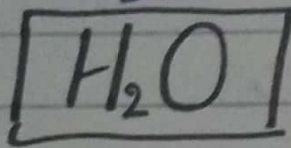
or prevent it from going to space.

In the absence of earth's environment/ GHG , the \checkmark temperature of earth would be below than the freezing point of water i.e -19°C and become inhospitable for all earth's creations.

It is the GHG s that play pivotal \checkmark role in not escaping energy into space, due to which earth's surface maintain a temperature of 15°C .



Major G.H.Gs



∴ Enhanced G.H.E ∴

Due to industrialization, the amount of G.H.Gs, particularly CO_2 has increased in the atmosphere, which has caused the more heat trapped in the Earth atmosphere. It is also called enhanced G.H.E.

According to a study in 2007, the amount of CO_2 and CH_4 has increased up to 36% and 146% respectively from 1750, which has contributed in enhanced G.H.E.

Question: 2 (c)

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Remote Sensing

The use of satellite in observing the phenomenon or any characteristics on creation on earth by sensing without physical interaction through the emission of radiation is called remote sensing.

Importance in Environmental Science:

Environmental science is basically a science which deals all the biotic and abiotic creations and phenomena behind events.

As the dealing of environment science with natural calamities, the use of

remote sensing can be helpful during

Floods
earthquakes
Landsliding
Volcanic Eruption

and many natural and man made activities. It can also use during

Wild Fire

To ensure the measures for climate mitigation, it can sense easily

Deforestation
Urbanisation
Industrialisation

Conclusion

In a nutshell, a satellite-based technology, operation on the basis of radiation emission from the earth's surface, can respond to the system and analyse the overall trend and many times help in developing prediction maps for weather. Thus, remote sensing in the present age has become pivotal for the field of environmental science.

Question: 2 (d)

Liver: Chief Chemist

Introduction: Liver, after heart has occupied essential place in the human body because of production of blood. Which is the primary function.

∴ Importance of Liver:

Liver being chief organ of body produces blood after the chemical reaction in the body, which occurs due to different type of diet as well as some external elements. The overall presence of blood in the human body is essential to maintain the good health, which becomes only possible after the efficient working of liver.

Deficiency of Blood with inefficient Liver

In case of any kind of defects in the working of liver, the required production of blood could not meet and hence causes;

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• Heart Disease

• Defection in Body Parts

• Stop Human Growth

Conclusion:

Thus, liver as an chief body organ plays an important role in the formation and essential or required blood and lead the efficient working of other major and minor parts of body. Without which, the changes of internal external issues raises and inflict damages and lead human death.