

AIR AND ITS POLLUTION.

Level - 1.

- Ans 1. a) Nitrogen - it is found is abundant in atmosphere as it is very stable as compared to others in the atmosphere & is not involved much in chemical reactions that occur there.
- Ans 2. b) Carbon monoxide - It is produced from partial oxidation of carbon, when there is not enough oxygen to produce CO_2 in an enclosed space.
- Ans 3. a) Acidic rain which corrodes marble - as acidic rain has sulfurous, sulfuric acid and nitric acids that react with calcite in marble and dissolves it.
- Ans 4. c) It is slightly lighter than air - because the air is a mixture of various gases which include N_2 & O_2 in prominent and others in almost 2%. The weight of O_2 is 32 g/mol & weight of N_2 is 28 g/mol . So the oxygen is heavier than air.
- Ans 5. a) Chlorofluoro Carbon - because when CFC is released in air the react chemical to break ~~the~~ down the ozone molecules which affect the absorbing capacity of ozone layer.
- Ans 6. b) CNG - Compressed Natural Gas.
- Ans 7. c) Mixture - because it contains 78% of N_2 , 21% O_2 , 0.9% of Argon, 0.04% CO_2 and other gases, along

with dust particles and water vapour.

Ans 8.c) Barometer - It is used to measure atmospheric pressure, as atmospheric pressure changes with distance above/below sea level.

Ans 9.c) CFC - As they deplete the ozone layer as they by destroying the ozone molecules. This cause the harmful UV radiation to cause damage to the environment.

Ans 10.b) Water vapour - dry air does not contain moisture.

* Level - 2.

Ans 1.a) The presence of Carbon dioxide in air turns lime water milky - due to the formation of insoluble Calcium Carbonate.

Ans 2.b) air is slightly heavier than oxygen and oxygen is slightly lighter than air - at higher altitudes, the atmospheric pressure change which changes the weight of air too.

Ans 3a) The content of water vapour varies - because of the humidity capacity of air. determined by the temperature at that particular time.

Ans 4c) Fractional distillation - Air is first passed through a filter to absorb water vapour and the other components are separated.

Ans 5. a) Troposphere - as clouds are present in the uppermost region. Almost all of the water vapours and dust particles in the atmosphere are present in troposphere.

Ans 6. a) reacts with highly electropositive metals. - because hydrogen when reacts it accepts an electron donated from the metal, which causes the metal to oxidized.

Ans 7. b) Water - due to polluted water containing virus of hep. A, and E etc.

Ans 8. a) Motor vehicles - the burning of fuel cause incomplete combustion due to insufficient supply of oxygen.

Ans 9. b) Stratosphere - to protect us from harmful UV radiation.

Ans 10. c) Argon - The noble gas is stable and is ~~in~~ 1% present in air that is in abundance after the H_2 & O_2 in periodic table.

Ans 11. a) Stratosphere - It is the second layer containing the ozone layer.

Ans 12. b) Air - Air is a mixture.