

# Chemistry



9th Class

Sindh Board Notes

Chapter # 13

Nitrogen And Oxygen



Fill In Blanks

پنجاب، سندھ، بلوچستان، خیبر پختونخواہ، بورڈز کے تمام نوٹس سابقہ پیپرز، اس ویب سائٹ سے فری ڈاؤن لوڈ کریں۔

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## ➔ NITROGEN & OXYGEN

1. The yellow colour of nitric acid is due to dissolved **NO<sub>2</sub>** gas.
2. When **1** mole of N<sub>2</sub> gas is mixed with **3** moles of H<sub>2</sub> gas, 2 moles of NH<sub>3</sub> gas are produced.
3. Nitric acid on the large scale is produced by **Ostwald's** method from ammonia.
4. Ammonia on the large scale is produced by **Haber Bosch** process.
5. Ozone is an **allotropic** form of **oxygen** with molecular formula O<sub>3</sub>.
6. The powerful ultra violet radiation of the sun are screened by **ozone** layer.
7. The process which takes place by the loss of electrons is called **oxidation**
8. In peroxides the oxidation state of oxygen is **-1**.
9. The oxides that show acidic and basic characters are known as **amphoteric** oxides.
10. Nitrogen boils out, from the liquid air at temperature **-196°C**.
11. **Nitrogen** was discovered by a Scottish Botanist Daniel Rutherford in 1772.
12. **Chaptal** named the gas nitrogen.
13. Nitrogen is the **tenth** most abundant element on earth.
14. Nitrogen belongs to **VA** group in periodic Table.
15. Nitrogen contains **five** electrons in its valence shell.

16. Nitrogen occurs in free state as  $N_2$  gas in air upto 78% by volume and 75% by mass of the earth's atmosphere.
17. The formula of Ammonium nitrite is  $NH_4NO_2$ .
18. Oxygen was discovered independently by scheel in 1772 and Priestley in 1774.
19. Lavoiser named the gas oxygen means acid producers.
20. Oxygen belongs to VI-A group of periodic table and is the first member of the family.
21. Oxygen contains 6 electrons in its Valences shell.
22. Oxygen is the most abundant element on earth.
23. In the free state oxygen is present as diatomic gas in the earth's atmosphere air upto 21% by volume and about 33% by mass.
24. Oxygen constitutes about 88.8% by mass of water on the earth's surface.
25. Human body is made upto of two thirds by mass of oxygen in the combined state.
26. Air contains 78% nitrogen by volume.
27. Oxygen is about 1.1 times denser than air.
28. The binary compounds of oxygen with metals and non-metals are called as oxides.
29. Oxides in which oxygen shows valence number -2 are normal oxides.
30. Normal oxides of metals are the basic oxides.
31. Normal oxides of non-metals are generally acidic.
32. Oxides that possess dual characteristics are amphoteric oxides.
33. Oxides contain higher proportion of oxygen as compared to normal oxides.

34.  $\text{Na}_2\text{O}_2$ ,  $\text{BaO}_2$  are the peroxides
35. The elements of IA group form super oxides.
36. The nard was the first to prepare  $\text{H}_2\text{O}_2$  and named it oxygenated water.
37.  $\text{H}_2\text{O}_2$  is a pale blue syrupy liquid.
38.  $\text{H}_2\text{O}_2$  is used mild antiseptic in mouth wash.  $\text{H}_2\text{O}_2$  is used as bleaching agent.
39. Addition of oxygen can be defined as oxidation.
40. Rusting of iron and burning of Mg and C in air is oxidation reaction.
41. Oxidation is also the removal of hydrogen from a compound.
42. Loss of electron is defined as oxidation.
43. Removal of oxygen from a substance or addition of hydrogen is called reduction.
44. Ozone is an allotropic form of oxygen and is a pale blue gas with sharp smell.
45. Ozone was discovered by schonbein in 1839.
46. Ozone is formed from atmospheric oxygen by lightening flashers, in nature.
47. Oxygen is converted into ozone by apparatus is called ozonizer.
48. Ozone layer serves to screen out the ultraviolet radiations of the sun.
49. During the decay of nitrogenous matter Ammonia is produced.
50. Haber won the noble prize in chemistry in 1918.
51. Concentrated solution of ammonia is commonly known as 880 ammonia.
52. Ammonia is used as cooling agent in some refrigerators.
53.  $\text{HNO}_3$  was first prepared by Glauber in 1685.

54. Gold is insoluble in nitric acid and silver is soluble.
55.  $\text{HNO}_3$  was previously known as aqua fortis.
56. A mixture of conc.  $\text{HNO}_3$  and cone.  $\text{HCl}$  is known as aqua regia.
57. Aqua Regia is also known as royal water.
58. Aqua regia dissolves gold due to liberation of nascent chlorine.
59. T.N.T. is the abbreviation of trinitrotoluene.
60. Formula of slaked lime is  $\text{Ca(OH)}_2$ .

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