

# Chemistry



9th Class

Sindh Board Notes

Chapter # 15

Halogens



Fill In Blanks

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

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## → HALOGENS

1. Halogens are the elements of VII-A group.
2. Halogens mean Salt Producing.
3. Halogens always exist as diatomic molecules.
4. All halogens contain seven electrons in their valence shells.
5. Fluorine and chlorine are abundant elements.
6. Cl, Br, and I are found as halides in sea water and in salt deposits.
7. Iodine is concentrated in seaweeds.
8. Each kg of sea water contains about 30gm of NaCl.
9. Sea Water contains about 70 parts per million by mass of bromide.
10. Sea water contains 0.05 parts per million by mass of iodine.
11. Iodine is present in seaweeds upto 800 parts per million by mass.
12. Astatine is a very radioactive element.
13. PTFE (Polytetra Fluoroethane) is excellent electrical insulators.
14. Teflon is used to prepare non-sticking sauce pans.
15. Stannous Fluoride ( $\text{SnF}_2$ ) is used in toothpastes for preventing tooth decay.
16. HF torches produce temperature upto 4000 $^\circ\text{C}$ , used for welding.

17. **Chlorine** is an important building block in the chemical industry.
18. **Chloroquine** is the most effective medicine against malaria.
19. Chlorine is also described as **Satanic** Elements.
20. DDT stands for **Dichloro Diphenyl Trichloro** ethane.
21. PCB stands for **Poly Chlorinated Biphenyls**.
22. CFC stands for **Chloro Fluoro Carbons**.
23. **Silver Bromide (AgBr)** is used in Photographic films, being light sensitive.
24. Iodine ion is used in thyroid glands to synthesize **thyroxin**.
25. Mixture of iodine with ethyl alcohol is known as **tincture** of Iodine.
26. Fluorine is **pale yellow** gas in colour.
27. Chlorine is a **pale green** gas in colour.
28. Chlorine has **pungent** and irritating choking smell.
29. Chlorine is **2.5** times heavier than air.
30. Bromine is volatile **reddish brown** liquid.
31. Iodine is shiny **black solid** in colour.
32. **Mercury** vapours are toxic.
33. **Gibb's Diaphragm** process is used for Chlorine production in which Hg is not used.
34. **Phosgene** is a poisonous gas used as chemical weapon.
35. HCl acid was sometimes called as **muriatic** acid.

36. HCl gas is collected in gas jar by the upward displacement of air.
37. Hydrogen chloride gas is highly soluble in water and forms HCl acid.
38. HCl is a colourless gas with acidic taste and odour.
39. White fumes of NH<sub>4</sub>Cl is obtained by the reaction of HCl acid with ammonia.
40. HCl is used for the pickling of iron.
41. Commercially bleaching powder is produced by Hasenclever process.
42. Formula of bleaching powder is Ca(OCl)<sub>2</sub>Cl.

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