

Chemistry



9th Class

Sindh Board Notes

Chapter # 16

Metals And Their Extraction



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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➔ METALS & THEIR EXTRACTION

1. All metals except mercury are solids.
2. Metals are sonorous i.e. give off notes on hitting.
3. Metals are good conductors of heat and electricity.
4. About half of the non-metals are gases.
5. Diamond is a non-metal.
6. Diamond is very hard and has very high melting point about 3500°C.
7. Non-metals are oxidizing agents.
8. The combined form of metals with less definite chemical impurities is known as minerals.
9. When the minerals are found mixed with earthy materials. They are known as ores.
10. The rocky materials present in ores are called gangue particles.
11. Metals are usually extracted from their ores.
12. Iron is the second most abundant metal after aluminum found in the earth's crust.
13. Haematite and Magnetite are the ores of iron. Formula of Haematite is Fe₂O₃.
14. Iron is present in clay soils as iron silicates.
15. Iron is an important part of haemoglobin present in the red blood cells.
16. $\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$ is of green colour and it is the formula of Malochite.

17. Aluminum is the third most abundant element after oxygen and silicon.
18. Oxide ores of Aluminum are Bauxites, Diaspore, and Corundum.
19. Potash mica and Kaolin are the Silicate ores of Aluminum.
20. Chromium is a silvery white metal. Chromite is the main ore of chromium.
21. Extraction of metal from its ore is called metallurgy.
22. Froth floatation process is used for the concentration of ore.
23. Mixture of CaSiO_3 and CaAl_2O_4 which remains molten at the furnace temperature is known as slag.
24. The remaining molten mass besides slag is called matte.
25. Iron metal is extracted from its ore hematite or Limonite.
26. The gas leaving the furnace is known as Flue gas.
27. Pig iron melts at 1227°C. Pig iron is about 96% iron and 4% carbon. Pig iron is hard and brittle.
28. Wrought iron is the purest commercial iron.
29. Wrought iron can be shaped by hammering at 500°C to 1000°C.
30. Steel is an alloy of iron with carbon and other elements such as Mn, Ni, Cr, and V etc.
31. Steel contains 0.15% carbon and 0.03% silicon.
32. The reduction of molten copper is carried out in Bessemer Converter.
33. Blister copper is 98% Pure Copper.
34. Aluminum is present upto 7.6% in the earth's crust.

35. **Alloys** are the uniform mixture of two or more metallic or non-metallic elements.
36. The base metal of Bronze is **copper**. Bronze contains 90-95% copper and 5-10% tin.
37. **Bronze** is used for making coins, medals and sculptures.
38. Brass is an alloy of base metal **copper**,
39. Brass contains 60-80% **copper** and 20-40% Zinc. Brass is a **yellow** in colour.
40. **Nichrome** is an alloy that contains 68% Nickel, 25% iron, and 15% chromium.

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9th Class

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