

CHEMISTRY (XII)

CHAPTER 05 (Halogens and Noble gases)

Short Questions:

1. What is structural formula of Teflon? Mention its two uses.
2. The elements of group VIIIA are called Nobel gases. Comment.
3. How halogen acids are ionized in water?
4. Arrange the following oxyacids in the increasing order of acid strength. HClO_4 , HClO_3 , HClO_2 , HOCl
5. Why bleaching powder shows bleaching action?
6. Write four uses of halogens.
7. Write disproportionation reaction of chlorine.
8. Write the reaction of NaOH with Cl_2 in cold state.

OR

How NaOH reacts with Cl_2 in cold and hot state?

OR

Write down reactions of chlorine with cold and hot NaOH .

9. Why HF is a weaker acid than other halogen acids?

OR

Why HF is a weaker acid than other HCl ?

10. Why solubility of noble gases increases down the group?
11. What are Freons and Teflon?
12. Describe two uses of helium.

OR

Write two uses of each helium and argon.

13. Write any two uses of krypton?
14. Why the elements of VIA other than oxygen show more than two oxidation states?
15. What is iodized salt?

OR

What is iodized salt? Write its function.

16. On what basis perchloric acid is considered a valuable analytical reagent?
17. Why iodine has metallic luster?
18. Give peculiar behaviour of fluorine?
19. What is meant by Available chlorine? How quality of bleaching powder is tested?
20. What factors affect the oxidizing power of halogens?
21. What is iodox and tincture of iodine?

CHAPTER 15 (Common Chemical Industries in Pakistan)

Short Questions:

1. How paper industry can be made progressive in Pakistan?
2. Give any four important (essential) qualities of a good fertilizer.
3. Classify elements essential for plant growth.
4. Give significance of potash fertilizer?
5. Enlist the steps involved in the manufacture of urea.
6. Write a note on diammonium phosphate.
7. Give preparation of Portland cement as carried out by Joseph Aspdin, Why it is named so?
8. Distinguish micronutrients and macronutrients for plants.
9. What are micronutrients?
10. Give reactions of preparation of urea by using NH_3 and CO_2 .
11. Write down four characteristic features for a good fertilizer.
12. What are essential nutrient elements? Why are they needed?
13. How ammonium nitrate is prepared? Describe the process.
14. Give the important qualities of fertilizer.
15. Give different zones in the rotary kiln and their temperature ranges.
16. What is clinker formation?

- 17.** What are fertilizers?
- 18.** Why is there a need for fertilizers?
- 19.** Give any four important qualities of fertilizers.
- 20.** Name the essential constituents of cement?
- 21.** Why wet cleaning is done in paper manufacture.
- 22.** Write down two woody and two non-woody raw materials for paper pulp manufacture.
- 23.** Name two woody and two non-woody raw materials.
- 24.** Which types of woody raw materials are used in paper industry?
- 25.** What reactions take place in decomposition zone during manufacturing of cement?
- 26.** What do you mean by prilling of urea?
- 27.** What do you mean by setting of cement?
- 28.** Why is cement known as Portland cement?
- 29.** Write down digestion process for the preparation of pulp.
- 30.** Define DAP. Write reaction for its preparation.
- 31.** What is the chemical composition of a good Portland cement?
- 32.** Why lignin is removed from pulp?
- 33.** What are the prospects of paper industry in Pakistan?