

Board – CBSE

Class – 11th

Topic – s-Block Elements

1. Show with an example that CaO is a basic oxide?
2. What happens when CaCO_3 is subjected to heat?
3. What happens when gypsum is heated to 390 K?
4. Mention the main compounds which constitute Portland cement
5. Why beryllium is not attacked by an acid easily?
6. What is milk of lime?
7. Anhydrous calcium sulphate cannot be used as plaster of Paris. Give reason
8. What type of oxide is made by sodium?
9. Write a reaction to show that bigger cat ions stabilize bigger anions.
10. Give the important uses of sodium carbonate.
11. Discuss the various reactions that occur in the Solvay process.
12. Give two uses of sodium carbonate?
13. Solution of Na_2CO_3 is alkaline. Give reason.
14. The second ionization enthalpy of calcium is more than the first. How that calcium forms CaCl_2 and not CaCl give reasons.
15. Give two uses of (i) caustic soda (ii) quick lime
16. What is quick lime? What happens when we add water to it?
17. Which member of the alkaline earth metals family has: (i) least reactivity (ii) lowest density (iii) highest boiling point (iv) maximum reduction potential
18. The alkaline earth metals are called s – block elements. Give reasons.
19. Why is Calcium preferred over sodium to remove last traces of moisture from alcohol?
20. Beryllium is reducing in nature. Why?