

Very Short Question/Answers:-

Q1. Why does calcium float on water?

Q2. List two properties of gold and silver which makes them more suitable for making Ornaments according to our needs.

Q3. An Element forms an Oxide A_2O_3 which is Acidic in nature. Identify 'A' as a Metal or Non-Metal.

Q4. By which Method metals of High reactivity are purified?

Q5. A non-metal 'X' exists in two different forms 'X' 'Y' and 'Z'. Y is the hardest natural Substance, whereas is the good Conductor of Electricity. Identify X, Y, and Z.

Q6. Name the process by which Sulphide ores are Concentrated.

Q7. What is Anode Mud?

Short Answer Questions-I

Q8. Give reasons for the following:-

1. Sodium Metal is kept Immersed in Kerosene.
2. Blue Color of Copper Sulphate solution Disappears when the Aluminium powder is added in it.

Q9. The Electronic Configurations of three elements X, Y, and Z are $X-2, 8$; $Y - 2, 8, 8, 7$ and $Z-2, 8, 2$. Which of them is a Metal and a Non-Metal?

Q10. What are the constituents of Solder alloy? Which property of solder makes it suitable for welding Electrical wires?

Q11. The Reaction of Metal 'X' with Fe_2O_3 is highly Exothermic and used to join Broken railway tracks. identify Metal 'X'. Write the balanced Chemical Equation of the Reaction with Fe_2O_3 . State the Special name given to this reaction.

Q12. What will you Observe when:

- (a). Some Zinc pieces are put into Copper Sulphate Solution?
- (b). Some Silver Pieces are put into green-colored Ferrous Sulphate Solution?

Short Answer Questions-II

Q13. Give the formulae of the stable binary compounds that would be formed by the combustion of pairs of elements.

1. Mg and N₂.
2. Li and O₂.
3. Al and Cl₂.
4. K and O₂.

Q14. Write the Chemical Equations for the Following taking Place when:-

- (a). Magnesium Ribbon is Burnt in the Presence of oxygen.
- (b). Sodium Metal Catches fire when it Came in the contact with the water.
- (c). Steam is passed over the aluminum.

Q15. (a). Compare the Properties of a typical Metal and a non-metal on the basis of the following:-

1. Nature of the oxide formed by them.
2. Conductivity.

(b). Name a Non-Metal which is lustrous and a metal that is liquid at room temperature.

Q16. A compound 'X' conducts Electricity and is soluble in water. What kind of Compound is X, Ionic or Covalent? Assign the other two properties of compound 'X' other than given in the Question?

Q17. An Alkali metal 'A' gives a Compound 'B' (Molecular mass = 40) on Reacting with water. The B give a soluble compound C on treatment with Aluminium Oxide. Identify A, B, and C gives the reaction involved.

Long Questions Answers [5-Marks]

Q18. (a). With the help of Labelled Diagram, Explain the process of the Electrolytic Refining of Copper.

(b). Name the Substance Formed on the Surface of Copper when it Reacts Slowly with moist CO₂ in the Air.

Q19. The Electronic Configuration of Magnesium atoms is 2, 8, 2 and that of the chlorine atom is 2, 8, 7. State the type of bond formed between the two and the formula of the compound formed. Show its formation with the help of the Electron Dot Structure. Also, list its two properties.

Q20. (a). Metals react with water to form their Oxides or Hydroxides. State the Special name given to the metallic Oxide which dissolves in water.

(b). Explain the Reactions of different metals with hot water, Coldwater and Steam. Give one Example with a Proper Balanced Equation. Name two metals that do not react with any form of Water.

Q21. (i). Given below are the steps for the Extraction of copper from its ore. Write the Reaction Involved.

1. Roasting of copper (I) Sulphide.
2. Reducing of copper (II) oxide with copper (I) sulfide.
3. Electrolytic Refining.

(ii). Draw a neat well diagram for the Electryolic Refining of Copper.

Q22. Give the Steps Involved in the Extraction of metals of low and Medium reactivity from their respective ores.

Again If you have any doubts related to this chapter then please let me know In the comment section. I will definitely help in solving your all queries as soon as possible.

If this content was helpful for you then please do share it with all of your other friends. So that our content can reach more and more students and we can help more and more students.