

PRACTICE TEST PAPER: CLASS-X CHEMICAL REACTIONS (X)(paper-I)

1. Write one equation each for decomposition reactions where energy is supplied in the form of heat, light and electricity?
2. Ammonia reacts with oxygen to form nitrogen and water. Write a balanced chemical equation for this reaction.
3. Name the substance oxidised and reduced and their agent
 - (i) $\text{CuO} + \text{H}_2 \rightarrow \text{Cu} + \text{H}_2\text{O}$
 - (ii) $\text{H}_2\text{S} + \text{Cl}_2 \rightarrow \text{S} + 2\text{HCl}$
4. Explain the term rancidity. What damage is caused by rancidity? How can we prevent things from getting rancid? What type of chemical reaction is responsible for causing rancidity?
5. Balance the reactions:-
 - (i) $\text{FeS} + \text{HCl} \rightarrow \text{FeCl}_2 + \text{H}_2\text{S}$
 - (ii) $\text{AgNO}_3 + \text{HCl} \rightarrow \text{AgCl} + \text{HNO}_3$
 - (iii) $\text{Cu}(\text{OH})_2 + \text{Na}_2\text{SO}_4 \rightarrow \text{CuSO}_4 + \text{NaOH}$
 - (iv) $\text{Pb}(\text{NO}_3)_2 + \text{NaCl} \rightarrow \text{NaNO}_3 + \text{PbCl}_2$
6. Name three natural and three synthetic indicators.
7. How do metal carbonates and metal hydrogen carbonates react with acid? Write chemical equation and result.
8. How is the concentration of hydronium ion (H_3O^+) affected when a solution of an acid is diluted?
9. What is universal indicator? How does it conclude that given substance is acid or base?
10. What is brine? What is chlor-alkali process? Explain.
11. What happens when gypsum is heated at 373°K ?
12. Write an equation for plaster of Paris when mixed with water.
13. Why do acids not show acidic behaviour in the absence of water?
14. Differentiate between ionic bond and covalent bonds.
15. List the main properties of ionic bonds.
16. List the main steps involved in the extraction of metals from ore.
17. Differentiate between calcination and roasting.
18. How does extraction occur at the top of the metals of reactivity series?
19. What chemical process is used for obtaining a metal from its oxide?

20. Which metal do not corrode easily?

21. What is alloy? Name the constituents of the following Brass, Bronze, Solder metal.

22. Name the coating present of iron pillar at Delhi.

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