

PRACTICE TEST PAPER: CLASS-X

METALS AND NON-METALS

1. Aluminum occurs as a compound whereas gold is found in free state. Why?
2. What are the constituents of the alloy called "stainless steel"?
3. Name one metal and one non-metal element which are obtained on a large scale from sea water.
4. List the constituents of brass.
5. What is Aqua Regia?
6. What is thermite reaction?
7. Name two metals (other than gold) which occur in free state in nature.
8. Identify the most reactive and least reactive metal from Hg, Na, Fe and Ag.
9. Name any two metals which are soft.
10. What is gangue?
11. On the basis of electron exchange, define-
 - a. Metals
 - b. Non-metalsSupport your answer with an example of each.
12. What is an alloy? Give two reasons as to why gold is alloyed.
13. When a Cu wire is left in AgNO_3 , it is observed that the solution turns bluish-green. Explain this observation, along with a balance equation to represent the change taking place.
14. By giving examples explain the following terms used in metallurgy-
 - a. Roasting
 - b. Calcination
15. What are electrovalent compounds?
16. Why do ionic compounds have high melting and boiling points?
17. Why does Fe displace Cu from CuSO_4 ?
18. Write chemical equations for the reactions that take place during the following events-
 - a. Steam is passed over red hot iron
 - b. SO_2 gas is dissolved in water
 - c. ZnS is heated in air
 - d. CO_2 is passed through lime water
19. Give reasons-
 - a. Metals conduct electricity
 - b. Reactions of HNO_3 with metal usually do not evolve hydrogen gas
 - c. For making gold ornaments, 22K gold is preferred over 24K gold.
20. Why are ores and not minerals used for extraction of metals?
21. State the three major steps usually involved in metallurgical process