

**UNIT- 8 - PERIODIC CLASSIFICATION****I. Short answers:**

1. State modern periodic law
2. The distance between adjacent copper atoms in solid copper is  $2.56 \text{ \AA}$ . Calculate the radius of copper.
3. Differentiate ores and minerals
4. What is slag? Give example.
5. How does Al react with air?
6. Prove that Al is powerful reducing agent.
7. How does Al reacts with caustic soda? give equation
8. Uses of Al
9. Write a note on aluminothermic process
10. Action of heat on copper.
11. Action of dil. Nitric acid with copper.
12. Action of Cu with con. Sulphuric acid and con. Nitric acid.
13. A green layer is occurred in copper vessel. Justify.
14. What is an alloy?
15. What are ferrous and nonferrous alloy? Give examples.
16. What are amalgams? How it is prepared give one use
17. Action of steam with iron.
18. Define corrosion.
19. Define (i) Atomic/ionic radii, (ii) ionization energy, (iii) electronegativity, (iv) electron affinity
20. Uses of iron

**II. Long answer:**

21. Explain variation of ionization energy along group and period.
22. Explain electrolytic refining of copper.
23. Explain gravity separation / hydraulic wash
24. Discuss magnetic separation
25. Explain froth floatation
26. How Al is extracted from its ore.
27. What are the methods of preventing corrosion?



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