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Answers Key:

Multiple Choice Question

1. (a) Silver
2. (b) Zn
3. (d) Malachite
4. (a) Pine oil
5. (c) $PbSO_3 \xrightarrow{\Delta} PbO + 2SO_2 \uparrow$
6. (b) Zone of heat absorption : $CO_2 \rightarrow C + O_2$
7. (c) Zone refining
8. (d) Both (a) & (b)
9. (a) $CaO_{(s)} + SiO_{2(s)} \longrightarrow CaSiO_{3(s)}$
10. (c) Carbon
11. (b) Non-wettability of the mineral particles in water
12. (c) froth flotation
13. (c) Pig iron > Cast iron > Wrought iron
14. (d) Rock Salt
15. (b) Au
16. (a) Roasting
17. (b) roasting
18. (b) $C + \frac{1}{2}O_2 \longrightarrow CO$
19. (c) Steel
20. (b) Mg + BaO_2
21. (a) magnetic properties
22. (a) Carbon reduction process
23. (c) roasting
24. (a) $\Delta G^0 = -nFE^0$
25. (d) Sodium dicyanoargentate
26. (b) 0
27. (a) Zone refining
28. (b) Magnesium carbonate
29. (c) Van-Arkel process
30. (d) Flux
31. (c) matte
32. (c) Hg
33. (b) 0.15 - 1.5%
34. (c) sulphide
35. (a) iron and carbon
36. (c) smelting
37. (d) both (b) and (c)
38. (a) AI
39. (a) Carbon blocks
40. (b) slag
41. (a) Silver
42. (d) All of these
43. (b) Concentration of ore
44. (c) $ZnCO_3 \xrightarrow{\Delta} ZnO + CO_2 \uparrow$
45. (c) moisture
46. (c) Sulphate
47. (d) Brass
48. (c) ZnO
49. (c) Cu_2S
50. (d) Magnetite