

Topic :- THE D-AND F-BLOCK ELEMENTS

- Which is not an ore of iron?
a) Haematite b) Magnetite c) Cassiterite d) Limonite
- On adding excess of NH_3 solution to CuSO_4 solution, the dark blue colour is due to
a) $[\text{Cu}(\text{NH}_3)]^+$ b) $[\text{Cu}(\text{NH}_3)_4]^{2+}$ c) $[\text{Cu}(\text{NH}_3)_2]^{2+}$ d) None of these
- Other forms of iron can be produced from:
a) Cast iron b) Wrought iron c) Pig iron d) Steel
- The variety of iron having highest melting point is:
a) Pig iron b) Cast iron c) Wrought iron d) Steel
- Most of the transition metals are paramagnetic due to the presence of:
a) Completed d -orbitals b) Completed f -orbitals c) Unpaired electrons d) None of these
- Spelter is:
a) Impure Cu b) Impure zinc c) ZnO d) CuO
- Which of the following is philosopher's wool?
a) ZnO b) HgO c) Ag_2O d) CuO
- The density of transition metals....in a series.
a) Gradually increases b) Gradually decreases c) Remains constant d) None of these
- Silver containing lead as impurity is purified by
a) Poling b) Cupellation c) Lavigation d) Distillation
- Which of the following elements is present as the impurity to the maximum extent in the pig iron?
a) Phosphorus b) Manganese c) Carbon d) Silicon

11. The magnetic moment of Cu^{2+} ion is
a) 2.73 b) Zero c) 1.93 d) 1.73
12. Percentage of nickel in nickel steel is:
a) 1.5% b) 3.5% c) 6.5% d) 8.5%
13. The formula of mercurous ion is:
a) Hg^+ b) Hg_2^+ c) Hg_2^{2+} d) None of these
14. Which pair consists only acidic oxides?
a) $\text{CrO}_3, \text{Mn}_2\text{O}_7$ b) $\text{ZnO}_2, \text{Al}_2\text{O}_3$ c) CaO, ZnO d) $\text{Na}_2\text{O}, \text{Al}_2\text{O}_3$
15. The extraction of which of the following metals involves bessemerization?
a) Fe b) Ag c) Al d) Cu
16. Nessler's reagent is:
a) KHgI_4 b) K_2HgI_4 c) $\text{K}_2\text{HgI}_4 + \text{NaOH}$ d) $\text{KHgI}_4 + \text{NaOH}$
17. Mac Arthur and Forest cyanide process is used in the extraction of:
a) Cu b) Ag and Au c) Fe d) Cr
18. Which is the chief ore of copper?
a) Galena b) Copper pyrites c) Sphalerite d) Siderite
19. Spiegeleisen is an alloy of:
a) Fe and Mn b) Fe, Mn and C c) Fe, Mn and Cr d) Fe and Cr
20. Among the following ions (hydrated), the colourless metal ion is
a) Cu^+ b) Cu^{2+} c) Fe^{2+} d) Mn^{2+}