

21. Geometry of the complex compounds usually depends upon
- A. type of ligands B. types of hybridization in the elements of ligands
C. hybridization of central metal D. All of above

Answer: Option C

22. When the central atom of coordination compound is sp^3d^2 hybridization the expected geometry will be
- A. tetrahedral B. square planar
C. trigonal bipyramidal D. octahedral

Answer: Option D

23. In pig iron the concentration of C-atom is
- A. 0.12 --- 0.25% B. 2.5 --- 4.5%
C. 2.0 --- 4.0% D. 0.25 --- 2.5%

Answer: Option B

24. In the production of wrought iron Mg Si and P are removed in the form of
- A. oxides B. silicates
C. slag D. carbonates

Answer: Option C

25. With impurities like P and S the open hearth furnace is lined with.
- A. SiO_2 B. Fe_2O_3
C. FeO D. CaO MgO

Answer: Option D

26. The oxidation number in $[MnO_4]^{-2}$

- A. 7 B. ?7
C. 6 D. ?6

Answer: Option C

27. Which is sold as fertilizer

- A. $CaSiO_3$ B. Na_2SiO_3
C. $Ca_3(PO_4)_2$ D. $MnSiO_3$

Answer: Option C

28. Any process of chemical decay of metals due to the action of surrounding medium is called

- A. activation B. enameling
C. corrosion D. coating

Answer: Option C

29. When an active metal like Al comes in contact with less active element like Cu then it produces

- A. dry cell B. galvanic cell
C. electrolytic cell D. a and b

Answer: Option B

30. Which of the following is typical transition metal?

- A. Sc B. Y
C. Cd D. Co

Answer: Option D