



9) According to CFT bonding between metal and ligand is ----- .  
in nature

- A) Co-ordinate      B) Covalent      C) Ionic      D) Metallic

10) In high speed octahedral complex,  $\Delta_o$  is -----than Pairing energy

- A) Very low      B) Intermediate  
C) More intermediate      D) Less

11) Which of the following is ceramic super conductor ?

- A) Cd      B) Hg      C)  $\text{YBa}_2\text{C}_3\text{O}_7$       D) Zn

12) Pure metallic solids are -----

- A) Insulators      B) Superconductors  
C) Semiconductors      D) Goodconductors

13) Electrical conductivity of Metals -----with decrease in temperature

- A) Decrease      B) Increase  
C) Does not change      D) First decreases then increases

14) Crystal structures are -----

- A) FCC      B) BCC      C) HCP      D) All of these

15) Super conductors shows ----- effect

- A) Resonance      B) Trans      C) Raman      D) Meissner

16) In Organometallic compound-----is used to signify bridging groups.

- A)  $\mu$       B) K      C)  $\eta$       D)  $\eta^2$

17) In dimethyl beryllium polymer Be-C-Be bridges are formed by -----  
bonds

- A) (2c-2e)      B) (3c-2e)      C) (1c-3e)      D) (3c-1e)

18) Fe –C equatorial bond length in  $\text{Fe}(\text{CO})_5$  molecule is ----- $\text{\AA}$

- A) 1.842            B) 1.792            C) 1.501    D) 2.315

19)  $\text{Cr}(\text{CO})_6$  has -----structure.

- A) Distorted octahedral            B) Octahedral  
C) Tetrahedral                        D) Trigonal bipyramidal

20) The Substance which alter the rate of chemical reaction is called -----

- A) Promoter            B) Inhibitor            C) Catalyst            D) Poison

21) Oxidation of oxalic acid by acidified  $\text{KMnO}_4$  is example of ----- catalysis

- A) Acid-base            B) Negative            C) Auto            D) Induced

22) The catalysts which accelerate the rate of chemical reactions are ----  
----- catalysts.

- A) Negative            B) Positive            C) Auto            D) Induced

23) Terminal carbonyl groups linked with metal through -----bond.

- A) Ionic            B) Sigma and Pi            C) Covalent            D) Hydrogen

24) The compound containing at least one metal-carbon bond is called -----  
----- compound

- A) Co-ordinate            B) Organometallic            C) Organic            D) Inorganic

25)  $\text{Ni}(\text{CO})_4$  has ----- structure .

- A) Octahedral            B) Tetrahedral  
C) Square planer            D) Trigonal bipyramidal

