

**TDC Part II**  
**Paper I, Group B**  
**Inorganic Chemistry**



**Department of Chemistry**

**L.S COLLEGE MUZAFFARPUR**

**B. R. A. BIHAR UNIVERSITY**

**Dr. Priyanka**

**TOPIC: - Practice Questions**

# Practice Questions

1. Give a brief note on the factor responsible for anomalous electronic configuration of Cr and Cu.
2. What accounts for the complex formation tendency of d-block elements?
3. Write a short note on the paramagnetism shown by d-block elements.
4. Why do 3d-series elements form coloured ions and compounds?
5. What are the non-stoichiometric compounds?
6. What are alloys? Give any two examples.
7. "Mn and Cr have highest number of oxidation states among first transition (3d) series elements". Comment.
8. Which one is more stable:  $Ti^{4+}$  or  $Ti^{3+}$ ?
9.  $\mu_{\text{eff}}$  for a metal ion with 3 unpaired electrons is
  - a) 1.73 B.M.
  - b) 2.83 B.M.
  - c) 3.87 B.M.
  - d) 4.90 B.M.
10. Finely divided Ni is used in
  - a) The manufacture of  $H_2SO_4$
  - b) The manufacture of  $HNO_3$
  - c) The manufacture of  $NH_3$
  - d) The hydrogenation reactions
11. Brass is an alloy of
  - a) Cu-Zn
  - b) Cu-Fe
  - c) Cr-Ni
  - d) Mn-Fe
12.  $MnO_2$  is
  - a) An acidic oxide
  - b) An amphoteric oxide
  - c) A basic oxide
  - d) None of the above