

## M. gmp questions of d and f Block

1. Which of the 3d series of the transition metals exhibits the largest number of oxidation state and why?
2. Give 4 examples of complex compounds?
3. Calculate the number of unpaired electrons in the following gaseous ions  $Mn^{3+}$  and  $Ti^{3+}$  and which one is most stable in aqueous solution?
4. Calculate Bohr moment or magnetic moment if 5 unpaired electrons are present.
5. Explain why  $Cu^+$  ion is not stable in aqueous solution.