**PRACTICAL PROBLEMS**



2. Determine the number of metal-metal bonds in the following clusters;



3. Compounds A and B in the given equation obey the 18 electron rule. Draw structures of compounds A and B clearly indicating hapticity of Cp\*. Also indicate oxidation state of Zn in both A and B.



4. Given that it shows the highest hapticity possible, find out the missing planar, unsaturated and conjugated carbocyclic hapto ligands in the following compounds, all of which obey the 18 electron rule.



5. Four chlorine ligands are missing in each of the given skeletons of dimeric compounds A, B and C. Given that all of them obey the 18 electron rule and no additional metal-metal bonds are present, attach the missing Cl ligands on the complexes in the most appropriate manner.



6. Count the electrons in the following compounds and indicate the electron count per metal unit.

