

Sri Aurobindo College (M)
University of Delhi
B.Sc. Life Science 3rd Year VI Semester
Internal Assessment: Inorganic Chemistry Assignment

Student Name:

Class Roll No:

Submitted to: Dr. Pradhumn Singh

Dated:

Q.1 Write all the possible oxidation states displayed by Cr, Fe, Co, Ni and Cu. Suggest the most stable oxidation states with examples of their compounds.

Q.2 Give the important methods of preparation and chemical properties of the following compounds:

(I) $K_2Cr_2O_7$ (II) $KMnO_4$ (III) $K_4[Fe(CN)_6]$ (IV) $K_3[Fe(CN)_6]$ (V) Sodium nitroprusside $Na_2[Fe(CN)_5NO]$ (VI) $[Co(NH_3)_6]Cl_3$ (VII) $Na_3[Co(NO_2)_6]$

Q.3 Define the Organometallic compounds. Give their detailed classification with appropriate example based on:

(A) Nature of Metal-Carbon bond

(B) Nature of ligands