

2nd Semester TDC Examination (Non-CBCS)

Subject – Chemistry (Core)

Course – NM-201 (Inorganic Chemistry)

Full marks – 12

Time = 1 h

2x6 = 12

1. Answer any *six* from the following:

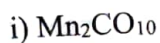
(a) Give two postulates of Werner's theory of coordination compounds.

(b) Give an example each of a monodentate, polydentate and ambidentate ligand.

(c) Find out the inorganic nomenclature of the following compounds:



(d) Calculate the number of (M-M) bonds present in the following compounds:



(e) Give the differences between calcination and roasting.

(f) Write short notes on any one of the following:

1) Zeolites

2) Setting of cement

(g) How is Nickel obtained from Mond's process?

(h) Answer any one of the following

1) Why are tetrahedral complexes always in high-spin state?

2) Why is NiCl_4 tetrahedral whereas NiCN_4 square planar? Explain giving reason

(g) Explain briefly the bonding in diborane.