

Course Code: 3MSC4
Course: Elective-II (Co-ordination chemistry)
Credit: 3
Last Submission Date: April 30 (for January Session)
October 31, (for July session)

Max. Marks:-30

Min. Marks:-11

Note:-attempt all questions.

Que.1 Explain following:-

- (a) VBT (valence bond theory)
- (b) (Crested Field theory)
- (c) (Molecular orbital theory)

Que.2 Write magnetic & spectral properties of transition elements.

Que.3 Write short notes on:-

- (1) Charge transfer spectra
- (2) Electronic spectra

Que.4 Write method of determination of magnetic susceptibility by group and faraday method.

Que.5 Explain in Van-Velck equation.

Que.6 Write a note on para- magnetism.

Que.7 Write a note on Orgel diagram.

Que.8 Write catalysis of organometallic compounds.

Que.9 What are boranes? Write structure of it.

Que.10 Explain metal clunture.