

MSC CHEMISTRY
SEMESTER-III
Course: Elective-II (Co-ordination Chemistry)

Note:-attempt all questions.

Que.1 Explain following:-

- (a) VBT (valence bond theory)
- (b) (Crystal 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 clusters.