

Internal Assessment, Semester IV

Core VIII

- Q 1. What is crystal field theory (CFT) ? Show splitting pattern of the orbitals in tetrahedral crystal field.
- Q 2. Explain catalytic properties of coordination compounds.

Core IX

Write short notes on :

1. Mannich reaction
2. Hoffmann's exhaustive methylation

Core X

- Q 1. What is Kohlrausch's law ? What are the applications of this law ?
- Q 2. What is electrochemical series ? What are the applications of this series ?

Semester IV, GE

- Q1. What is the difference between molecularity and order of reaction ?
- Q2. Derive first order rate expression for a chemical reaction.