

Internal Examination (Semester IV)

Answer all questions

Chemistry (Core) Paper VIII

1. What is Jahn Teller theorem? Write splitting in square planer complexes.
2. Write notes on following
 - (a) CFSE
 - b) Magnetic property of Lanthanide

Chemistry (Core) Paper IX

1. What do you mean by heterocyclic compound? Write Paal-Knorr synthesis of Pyrrole. I
2. Write Gabriel phthalimide synthesis.

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Chemistry (Core) Paper X

1. What is equivalent conductivity? Write Kohlrausch law of independent migration of ions.
2. Write notes on following
 - (a) Ionic product of water
 - b) Faraday's law of electrolysis

Chemistry (Core) Practical

1. How can you detect the element? I
2. Write functional group test for acid.

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Internal Examination (Semester II)

Answer all questions

Chemistry (Core) Paper III

1. Write Saytzeff elimination. What do you mean by enantiomer?
2. Write following mechanism
(a) Fridel-Craft's acylation b) Nitration

Chemistry (Core) Paper IV

1. Derive work done in adiabatic expansion
2. What do you mean by entropy? Calculate entropy change for reversible and irreversible process.

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Chemistry (GE)

1. Derive Kirchhoff's equation

2. Write following mechanism

(a) Friedel Craft Acylation reaction b) Reimer-Tiemann reaction

Chemistry (GE) Practical

1. What do you mean by PH

2. What is buffer solution.

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Chemistry (GE)

1. Derive rate equation for second order when concentration of reactant are same.
2. Write notes on following
 - (a) Zero order reaction
 - b) inert pair effect

Chemistry (GE) Practical

1. Write systematic method for qualitative analysis of inorganic mixture having two cations and anions.

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Internal Examination- Semester II

Chemistry (Core) Practical

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1. What do you mean by enthalpy of neutralization? _I
2. What is melting point and boiling point