

B.B.M. COLLEGE, BALIAPUR, DHANBAD

Internal Exam – 2024

(Session 2020-23/2021-24)

SEMESTER – I to IV

Special Exam

Class – B.Sc. (Chemistry)
Sub. – GE Paper -II

Time –
F.M. – 20 each Sem.

SEMESTER – I

Answer any two question

Time – 1 Hr

F.M. - 20

1. Write notes on:- Hund's rule
2. Write notes on:-
Pauli Exclusion principle
3. Write notes on:-
Huckel Rule of Aromaticity

Practical:-

1. Estimate the amount of Na_2CO_3 and NaHCO_3 in mix of two Sol^n using $\text{N}/10$ HCL Sol^n .

SEMESTER – II

Answer any two question

Time – 1 Hr

F.M. - 20

1. Write and Drive the first Law of thermodynamics.
2. Write Kirchhoff's Law of thermodynamics.
3. Relationship between C_p and C_v .

Practical:-

1. Determination of enthalpy of neutralization of hydrochloric acid with NaOH.

SEMESTER – III

Answer any two question

Time – 1 Hr

F.M. - 20

1. Explain Kohlrausch law of independent Migration.
2. Drive Clausius-Clapeyron equation and its importance in phase equation.
3. Define on:-
(a) Conductivity (b) Molar Conductivity

Practical:-

1. Detection of functional group in given organic compound.

SEMESTER – III

Answer any two question

Time – 1 Hr

F.M. - 20

1. Write notes on Diborane.
2. Write main postulates of kinetic theory of gases.
3. Write notes on-
(a) R.M.S. Velocity (b) Law of corresponding state

Practical –

1. Determination of the surface tension of a liquid or a liquid or dilute Sol^n using a stalagmometre.