BSK College, Maithon
Mathematics GE Assignment Topic (2015-18)

SEMESTER I

1. Explain and prove Leibnitz's theorem with a suitable example.
2. Describe Reduction formulae with a suitable example.

SEMESTER II

1. Derive the first order exact differential equations.
2. Describe Lagrange's method

SEMESTER III

1. Define and prove Cauchy's theorem on limits.
2. Define absolute and conditional convergence with example.

SEMESTER IV

1. Define groups with example.
2. Define subgroups with example.

G.E Question Papers

Sem - I (Theory)

1) Derive relation between different elastic constants.

Practical

1) Determine the value 'g' by Bar Pendulum.

Sem - II (Theory)

1) Give Faraday's law of electromagnetic induction. Explain Lenz's law.

Practical

1) Compare capacitances using De Sauty's Bridge.

Sem - III (Theory)

1) What is first law of Thermodynamics. Calculate the workdone in an isothermal process.

Practical

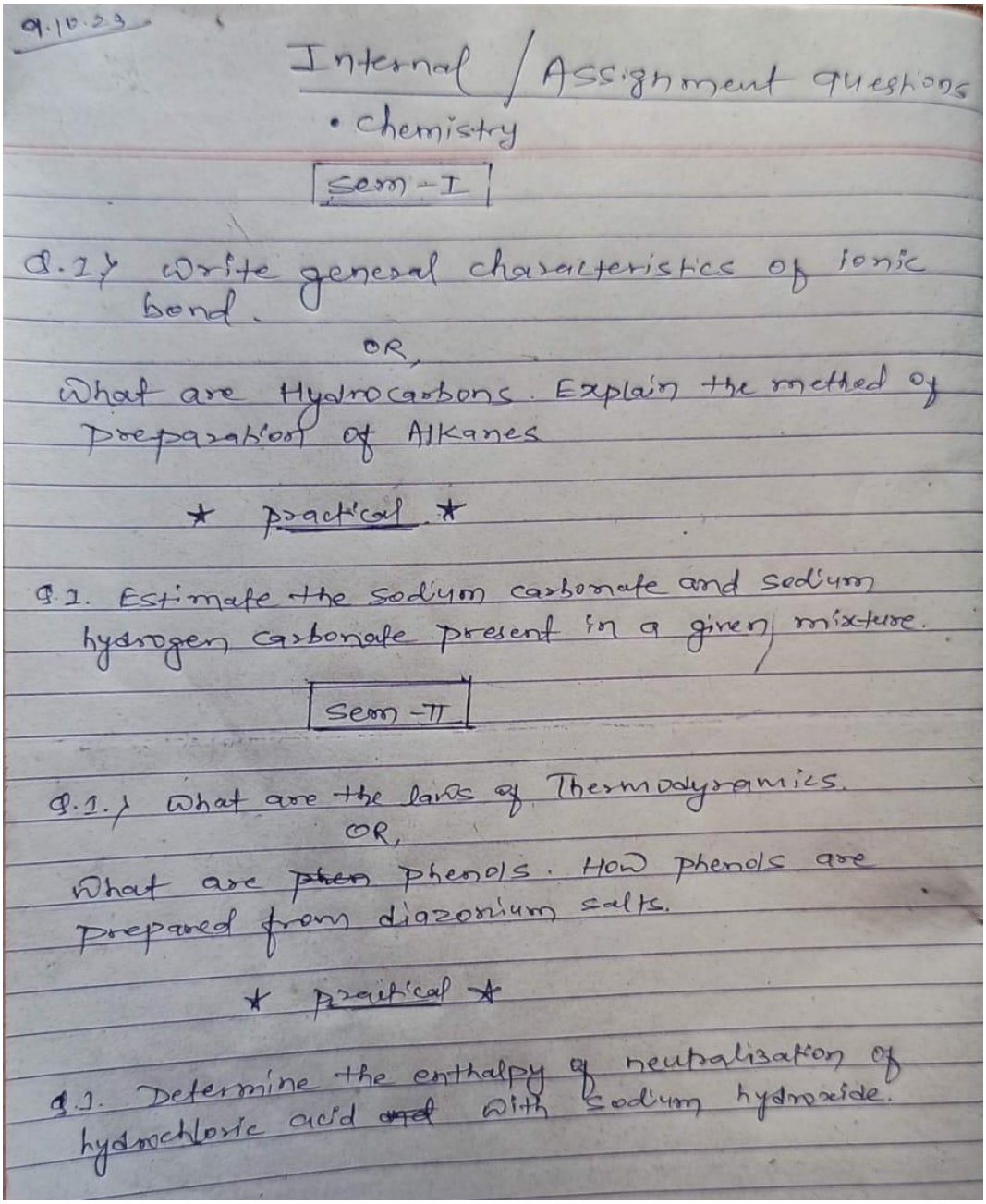
1) Determine the temperature coefficient of resistance by platinum resistance thermometer.

Sem - IV (Theory)

1) Give the theory of Newton's Rings. How you will measure wavelength of Sodium light using Newton's rings.

Practical

1) Determine the wavelength of sodium light using Newton's Rings apparatus.


9.10.23

Internal / Assignment questions

• chemistry

Sem - I

Q.1) write general characteristics of ionic bond.

OR,

What are Hydrocarbons. Explain the method of preparation of Alkanes

★ practical ★

Q.1. Estimate the sodium carbonate and sodium hydrogen carbonate present in a given mixture.

Sem - II

Q.1.) What are the laws of Thermodynamics.

OR,

What are ~~phen~~ phenols. How phenols are prepared from diazonium salts.

★ practical ★

Q.1. Determine the enthalpy of neutralization of hydrochloric acid ~~and~~ with sodium hydroxide.

Sem III

Q1. Preparation of Amino acids

Practical

Q1. Qualitative analysis of COOH

Sem IV

Q1. Kinetic Theory of Gases

Practical

Q1. Determination of the surface tension of a liquid using a stalagmometer.

BSK College, Maithon
Botany GE Assignment Topic (2015-18)

SEMESTER I

Theory
General structure and nature of Viruses **Or** life cycle of Nostoc

Practical
Structure of Bacteriophages. **Or** Prepare a temporary slide of Puccinia

SEMESTER II

Theory
Pond Ecosystem **or** Ecological succession

Practical
Study of morphological adaptations of hydrophytes.
Or
Study of vegetative and floral characters of Solanaceae

SEMESTER III

Theory
Meristematic tissue **Or** Morphology and uses of wheat

Practical
T.S. of Boerhaavia stem **Or** Structure of embryo sac

SEMESTER IV

Theory
Mendel's law of inheritance **Or** Mechanism of Transpiration

Practical
Study of mitosis stages
Or
To study any physiological experiment given in syllabus

BSK College, Maithon
Zoology GE Assignment Topic (2015-18)

SEMESTER I

Theory
Life cycle of obelia with suitable diagrams. **Or** Flight adaptation in Birds.

Practical
Comments on ANY Two (with diagrams)

(a) Spicules of porifera
(b) Meridiam
(c) Tapeworm
(d) Asterias
(e) T.S of male & female Ascaris

SEMESTER II

Theory
Structure & function of Plasma membrane **Or** Darwin's theory of natural selection

Practical
Preparation of stained squash of onion root tip to demonstrate mitosis.
Or
Study of homologous and analogous organs

SEMESTER III

Theory
Structure and classification of carbohydrates. **Or** Transport of gases (O2 & CO2)

Practical
Biochemical test for Glucose
Or
Comment on the following

(a) T.S. of thyroid gland
(b) WM of 24 hrs Chick Embryo

SEMESTER IV

Theory
Food Chain & food Web & Ecological Pyramids
Or
Sericulture

Practical
Determination of pH in soil and water
Or
Common sugar cane Pest