

**A DISSERTATION REPORT
ON
“METAL-LIGAND BONDING IN
OCTAHEDRAL COORDINATION
COMPLEXES”**

SUBMITTED BY:

Kumar Sambhav Rath

UNDER THE GUIDANCE OF:

Prof. Dr. Sasmita Samal

(Head of Department of Chemistry)

Prof. Dr. Sonia

FOR THE DEGREE OF:

Bachelor of Science in Chemistry



**DEPARTMENT OF CHEMISTRY
GOVERNMENT AUTONOMOUS COLLEGE, ROURKELA**

A DESSERTATION REPORT

Submitted by

SUSHREE TANMAYEE (18CHE004)

TOPIC: BIOINORGANIC CHEMISTRY

Under the guidance of:

Dr. Sasmita Samal

(Head of the Department Chemistry)

And

Dr. Sonia Sharma



Submitted to: Department of Chemistry

GOVERNMENT AUTONOMOUS COLLEGE

ROURKELA-769004, ODISHA



A DISSERTATION REPORT
SUBMITTED BY-

KRITIKA PAL (18CHE005)

TOPIC - ENVIRONMENTAL CHEMISTRY

UNDER THE GUIDANCE OF -

DR. SASMITA SAMAL (7004. CHEMISTRY)

DR. SOMA SHARMA

SUBMITTED TO - DEPARTMENT OF
CHEMISTRY

GOVERNMENT AUTONOMOUS COLLEGE

ROURKELA - 769004. ODISHA

A DISSERTATION REPORT

Submitted by:

AGNIKA RAJGURU (18CHE006)

TOPIC: **ACID RAIN**

Under the guidance of:

Dr. Sasmita Samal

(Head of the Department Chemistry)

And

Dr. Sonia Sharma



Submitted to: Department of Chemistry GOVERNMENT
AUTONOMOUS COLLEGE ROURKELA-769004, ODISHA

A DISSERTATION REPORT

Submitted by:

MADHUSMITA PARIDA(18 CHE 007)

TOPIC POLYMER(FABRICS)

Under the guidance of:

Dr.Sasmita Samal

Head of the Department of Chemistry

And

Dr Sonia Sharma



Submitted to: Department of Chemistry

GOVERNMENT AUTONOMOUS COLLEGE

ROURKELA-769004,ODISHA

**A DISSERTATION REPORT
ON**

SUBMITTED BY :

KIRAN PANDA (18CHE009)

UNDER THE GUIDANCE OF

DR.SASMITA SAMAL

(HEAD OF THE DEPARTMENT OF CHEMISTRY)

DR.SONIA SHARMA

FOR THE DEGREE OF

BACHELOR OF SCIENCE IN CHEMISTRY



2021

DEPARTMENT OF CHEMISTRY

GOVERNMENT AUTONOMOUS COLLEGE,ROURKELA

A DISSERTATION REPORT

A report submitted in partial fulfillment of the requirements for the Award of degree of

BACHELOR OF SCIENCE
CHEMISTRY

By

DEEPAK NAIK

ROLL NO: 18CHE011

On the topic

BORON CHEMISTRY AND ITS AND APPLICATION TO CANCER TREATMENT

Under the guidance of

Dr. Sasmita Samal (HOD) & Dr. Sonia Sharma

SUBMITTED TO

DEPARTMENT OF CHEMISTRY



ସରକାରୀ ସ୍ୱୟଂଶାସିତ ମହାବିଦ୍ୟାଳୟ, ରାଉରକେଲା
GOVERNMENT AUTONOMOUS COLLEGE, ROURKELA
Sundargarh, Raghunathpali, Rourkela, Odisha

A DISSERTATION REPORT ON
Aromatic Carboxylic acid

2020-2021

GOVERNMENT AUTONOMOUS COLLEGE
ROURKELA



Submitted by:-

Name:- Jyotirmayee Pradhan

Class:- +3 Science 3rd year

Chemistry (Hons)

Roll no.- 18CHE015

For the degree of Bachelor of science
in Chemistry

Head of Department: (Chemistry)

Guided by:-

Dr. Sasmita Samal &

Dr. Soniya Sharma

A DISSERTATION REPORT

ON

CHEMISTRY IN EVERYDAY LIFE

SUBMITTED BY :

SONAL SETHY (18CHE016)

UNDER THE GUIDANCE OF

DR.SASMITA SAMAL

(HEAD OF THE DEPARTMENT OF CHEMISTRY)

DR.SONIA SHARMA

FOR THE DEGREE OF

BACHELOR IN SCIENCE IN CHEMISTRY



NMR SPECTROSCOPY

A project submitted to department of chemistry of

Govt. Autonomous college

Raghunathpali , Rourkela ,Odisha



Submitted by

Kanhu charan nayak (18CHE018)

Under the guidance of:

Dr. Sasmita Samal

&

Dr. Sonia Sharma

For the Degree of :

Bachelor of Science

In

CHEMISTRY

A DISSERTATION REPORT

ON

RADIOCARBON DATING

SUBMITTED BY:

ANUPAMA TOPPO (18CHE019)

UNDER THE GUIDANCE OF:

DR. SASMITA SAMAL

HEAD OF THE DEPARTMENT, CHEMISTRY

DR. SONIA SHARMA

FOR THE DEGREE OF

BACHELOR OF SCIENCE IN CHEMISTRY



DEPARTMENT OF CHEMISTRY

GOVERNMENT AUTONOMOUS COLLEGE

PANPOSH, ROURKELA

GOVT. AUTONOMOUS COLLEGE, ROURKELA

SESSION: 2018-21

DEPARTMENT OF CHEMISTRY

A PROJECT REPORT ON

**"ROLE OF CHEMISTRY IN FORENSIC
SCIENCE"**

*A Dissertation Submitted To Govt. Autonomous College, Rourkela
For The*

Partial Fulfillment of Bachelor's Degree in CHEMISTRY.

Submitted by,

BISEWAR SAHU

UG SEMESTER - VI

ROLL NO - 18 CHE - 020

Under the Guidance of

DR. SASMITA SAMAL (H.O.D)

DR. SONIA SHARMA

Dept. Of CHEMISTRY, GACR

A DISSERTATION REPORT

SUBMITTED BY: LIPSA TRIPATHY (IRCHE083)

OCEAN ACIDIFICATION

THE GUIDANCE OF: DR. SUSHMITA SAMAL

HEAD OF THE DEPARTMENT, CHEMISTRY

DR SONIA SHARMA FOR THE DEGREE

OF BACHELOR OF SCIENCE

IN CHEMISTRY



DEPARTMENT OF CHEMISTRY

GOVERNMENT AUTONOMOUS COLLEGE

PANPOSH, ROURKELA

GOVERNMENT AUTONOMOUS COLLEGE,
ROURKELA



SESSION 2018-2021

PROJECT ON

“SURFACE CHEMISTRY”

SUBMITTED TO
DEPARTMENT OF CHEMISTRY

UNDER THE GUIDANCE OF

DR. SASMITA SAMAL

&

DR. SONIA SHARMA

SUBMITTED BY

BIBEKA NANDA NATH

ROLL NO- 18CHE024

BSC 6TH SEMESTER



2021

Department of Chemistry
Government Autonomous College,
Pimpri, Pimpri Chinchwad
Pimpri Chinchwad

A DESSERTATION REPORT
ON
CARBOHYDRATES

Submitted By

Tansim Singh

Roll no: LBCHE025

Under the Guidance of

Dr. Sasmita Samal

Dr. Sonia Sharma

Head of Department of Chemistry

A DESSERTATION REPORT
ON
F-BLOCK ELEMENTS

Submitted By:-

SIKHA SINGH

(18CHE027)

Under the Guidance of :

Dr. Sasmita Samal

Dr. Sonia Sharma

Head of Department of Chemistry

For the Degree of

BACHELOR OF SCIENCE OF CHEMISTRY



2021

Department of Chemistry

Government Autonomous College, Panposh Rourkela

A DISSERTATION REPORT
SUBMITTED BY: SHWETA SHARMA
ROLL NO. - 1SCHE028
POLYNUCLEAR COMPOUND UNDER
THE GUIDANCE OF: DR. SUSHMITA SAMAL
HEAD OF THE DEPARTMENT, CHEMISTRY
DR SONIA SHARMA FOR THE DEGREE OF
BACHELOR OF SCIENCE IN CHEMISTRY



DEPARTMENT OF CHEMISTRY
GOVERNMENT AUTONOMOUS COLLEGE
PANPOSH, ROURKELA

A DISSERTATION REPORT

Submitted by: ASHISH PATEL (120110029)

TOPIC: PETROLEUM AND
PETROCHEMICAL PRODUCTS

UNDER THE GUIDANCE OF:

Dr. Sasmita Samal

Head of the Department, Chemistry

For the degree of

BACHELOR OF SCIENCE IN CHEMISTRY



Department of Chemistry

GOVERNMENT AUTONOMOUS COLLEGE,
PANPOSH, ROURKELA

GOVERNMENT AUTONOMOUS COLLEGE,
ROURKELA



SESSION 2018-2021

PROJECT ON

"CHEMICAL EQUILIBRIUM"

SUBMITTED TO
DEPARTMENT OF CHEMISTRY

UNDER THE GUIDANCE OF

DR. SASMITA SAMAL

&

DR. SONIA SHARMA

SUBMITTED BY

AJAYA RANA

ROLL NO- 18CHE031

BSC 6TH SEMESTER

A DISSERTATION REPORT

SUBMITTED BY

Asish Prasad Rajak (18CHE032; 31294/18)

TOPIC:

INDUSTRIAL GASES

UNDER THE GUIDANCE OF:

Dr. Sasmita Samal

&

Dr. Sonia Sharma

FOR THE DEGREE OF:

Bachelors' of Science in CHEMISTRY



SUBMITTED TO:

Department of Chemistry

Government Autonomous College,

Panpose, Rourkela, Odisha

**A DISSERTATION REPORT
ON
CATALYSIS BY ORGANOMETALIC COMPOUND
(INDUSTRIAL PROCESS AND THEIR MACHANISM)
SUBMITTED BY:
ASHUTOSH PRADHAN
ROLL No. : 18CHE033
UNDER THE GUIDANCE OF
DR. SASMITA SAMAL
(HEAD OF THE DEPARTMENT OF CHEMISTRY)
AND
Dr. SONIA SHARMA
FOR THE DEGREE OF
BACHELOR OF SCIENCE IN CHEMISTRY**



2021

DISSERTATION REPORT

A report submitted in partial fulfillment of the requirements for the Award of Degree of

**BACHELOR OF SCIENCE
CHEMISTRY HONS.**

by
RUCHITA SAHU
Roll No.: 18CHE034

on the topic
INDUSTRIAL CHEMISTRY

Under the Guidance of
Dr. Sasmita Samal (HOD) & Dr. Sonia Sharma



DEPARTMENT OF CHEMISTRY

ସରକାରୀ ସ୍ୱୟଂଶାସିତ ମହାବିଦ୍ୟାଳୟ, ରାଉରକେଲା
GOVERNMENT AUTONOMOUS COLLEGE, ROURKELA
Sundargarh, Raghunathpali, Rourkela, Odisha

GOVERNMENT AUTONOMOUS COLLEGE ROURKELA

A Review On

STUDY ON THE EFFECT OF PH AND VARIOUS SULFUR
RECURSOR ON THE PHASE AND MORPHOLOGY OF CuS

A DISSERTATION SUBMITTED FOR THE PARTIAL
FULFILLMENT FOR THE DEGREE OF MASTERS OF
SCIENCE IN CHEMISTRY

SUBMITTED BY,

SWARUP KISHORE DAS

ROLLNO- 18PCHE34

UNDER THE SUPERVISION OF

DR. SASMITA SAMAL

AND

DR. SONIYA



GOVERNMENT (AUTO) COLLEGE, ROURKELA

A DISSERTATION REPORT
ON
CO-ORDINATION CHEMISTRY

Submitted by :-

KALPANA SAHU (18CHE035)

UNDER THE GUIDANCE OF

DR SASMITASAMAL
(HEAD OF THE DEPARTMENT of
chemistry)

DR. SONIA SHARMA

FOR THE DEGREE OF
BACHELOR IN SCIENCE IN CHEMISTRY



Department of CHEMISTRY
GOVERNMENT AUTONOMOUS
COLLEGE, ROURKELA

A DISSERTATION REPORT
ON
COAL AS A FUEL

SUBMITTED BY :-

AYANTIKA ROY (18CHE036)

UNDER THE GUIDANCE OF

DR. SASMITA SAMAL

(HEAD OF THE DEPARTMENT OF CHEMISTRY)

DR. SONIA SHARMA

FOR THE DEGREE OF

BACHELOR IN SCIENCE IN CHEMISTRY



DEPARTMENT OF CHEMISTRY
GOVERNMENT AUTONOMOUS COLLEGE, ROURKELA

A DISSERTATION REPORT

SUBMITTED BY: RUTUPARNA SAMAL (18CHE038)

NUCLEOPHILIC ADDITION REACTION OF
ALDEHYDES AND KETONES

THE GUIDANCE OF: DR. SUSHMITA SAMAL
HEAD OF THE DEPARTMENT, CHEMISTRY

DR SONIA SHARMA FOR THE DEGREE
OF BACHELOR OF SCIENCE

IN CHEMISTRY



DEPARTMENT OF CHEMISTRY

GOVERNMENT AUTONOMOUS COLLEGE

PANPOSH, ROURKELA