

WALTER KOHN

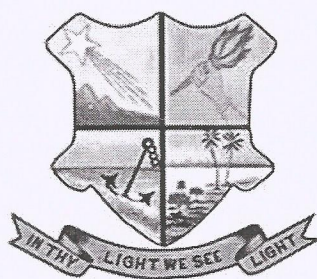
*Review report submitted to University of Calicut in partial fulfillment of
the requirement for the award of the degree*

Bachelor of Science in CHEMISTRY

Submitted by

Sangeetha T

PWASSCH015




Department of Chemistry

Providence Women's College, Calicut


March 2021


CERTIFICATE

This is to certify that the review titled "Walter Kohn" is the original work carried out by Sangeetha T (PWASSCH015) for the award of the degree of Bachelor of Science in Chemistry of University of Calicut under my supervision and guidance at Department of Chemistry, Providence Women's College, Calicut.


Dr. Deepthi Jose

Calicut
March 2021


Sr. Asha Thomas
Head of the Department
Department of Chemistry
Providence Women's College
Calicut.


Internal Examiners
Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

WOLFGANG PAULI-THE ENCHANTER OF METAPHYSICS

*Review report submitted to University of Calicut in partial fulfillment
of the requirement for the award of the degree*

Bachelor of Science in CHEMISTRY

Submitted by

ASWATHI K P


PWASSCH025




Department of Chemistry
Providence women's College, Calicut
March 2021


CERTIFICATE

This is to certify that the review titled "WOLFGANG PAULI-THE ENCHANTER OF METAPHYSICS" is the original work carried out by Aswathi K P (PWASSCH025) for the award of the degree of Bachelor of Science in Chemistry of University of Calicut under my supervision and guidance at Department of Chemistry, Providence Women's College, Calicut.


Dr. Deepthi Jose

Calicut
March 2021


Sr. Asha Thomas
Head of the Department
Department of Chemistry
Providence Women's College
Calicut.


Internal Examiner
Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

MAX BORN

*Review report submitted to University of Calicut in partial fulfillment of
the requirement for the award of the degree*

Bachelor of Science in CHEMISTRY

Submitted by

Aswathy Paul

PWASSCH026



Department of Chemistry

Providence women's College, Calicut


March 2021


CERTIFICATE

This is to certify that the review titled "Max Born" is the original work carried out by Aswathy Paul (PWASSCH026) for the award of the degree of Bachelor of Science in Chemistry of University of Calicut under my supervision and guidance at Department of Chemistry, Providence Women's College, Calicut.


Dr. Deepthi Jose

Calicut
March 2021


For Sr. Asha Thomas
Head of the Department
Department of Chemistry
Providence Women's College
Calicut.


Internal Examiner
Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

ARIEH WARSHEL

*Review report submitted to University of Calicut in partial fulfillment of
the requirement for the award of the degree*

Bachelor of Science in CHEMISTRY

Submitted by

Drissya R Das

PWASSCH027



Department of Chemistry

Providence women's College, Calicut

March 2021

CERTIFICATE

This is to certify that the review titled "Arieh Warshel" is the original work carried out by Drissya R Das (PWASSCH027) for the award of the degree of Bachelor of Science in Chemistry of University of Calicut under my supervision and guidance at Department of Chemistry, Providence Women's College, Calicut.

Calicut

March 2021



Dr. Deepthi Jose



Sr. Asha Thomas
Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

MARTIN KARPLUS- THE VISIONARY PIONEER

*Review report submitted to University of Calicut in partial fulfilment of
the requirement for the award of the*

Degree Bachelor of Science in CHEMISTRY.

Submitted by

GOPIKA RS

PWASSCH029



Department of Chemistry
Providence Women's College, Calicut

March 2021

CERTIFICATE


This is to certify that the review titled "MARTIN KARPLUS- THE VISIONARY PIONEER" is the original work carried out by GOPIKA RS (PWASSCH029) for the award of the degree of Bachelor of science in chemistry of University of Calicut under my supervision and guidance at Department of Chemistry, Providence Women 's college, Calicut.

Calicut

March 2021



Dr. Deepthi Jose



Internal Examiner

Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

ERWIN SCHRODINGER

*Review report submitted to University of Calicut in partial fulfillment of the requirement for
the award of the degree*

Bachelor of Science in CHEMISTRY

Submitted by

Indulekha R

PWASSCH031




Department of Chemistry

Providence women's College, Calicut


March 2021


CERTIFICATE

This is to certify that the review titled "ERWIN SCHRODINGER" is the original work carried out by Indulekha R (PWASSCH031) for the award of the degree of Bachelor of Science in Chemistry of University of Calicut under my supervision and guidance at Department of Chemistry, Providence Women's College, Calicut.


Dr. Deepthi Jose

Calicut
March 2021


For Sr. Asha Thomas
Head of the Department
Department of Chemistry
Providence Women's College
Calicut.


Internal Examiner
Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

PAUL ADREIN MAURICE DIRAC

*Review report submitted to University of Calicut in partial fulfillment of
the requirement for the award of the
Degree Bachelor of Science in CHEMISTRY.*

Submitted by

KAVYALAKSHMI

PWASSCH032



**Department of Chemistry
Providence women's College, Calicut
March 2021**

CERTIFICATE

This is to certify that the review titled "PAUL ADREIN MAURICE DIRAC" is the original work carried out by Kavyalakshmi (PWASSCH032) for the award of the degree of Bachelor of Science in Chemistry of University of Calicut under my supervision and guidance at Department of Chemistry, Providence Women's College, Calicut



Dr. Deepthi Jose

Calicut

March 2021



Internal examiner

Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

JOHN A POPE

*Review report submitted to University of Calicut in partial fulfilment of the
requirement for the award of the degree*

Bachelor of Science in CHEMISTRY

Submitted by

Namitha PK

PWASSCH034



Department of Chemistry

Providence women's College, Calicut

March 2021

CERTIFICATE

This is to certify that the review titled "John A Pople" is the original work carried out by Namitha PK(PWASSCH034) for the award of the degree of Bachelor of Science in Chemistry of University of Calicut under my supervision and guidance at Department of Chemistry, Providence Women's College.



Dr. Deepthi Jose

Calicut
March 2021



Internal Examiners
Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

HABER PROCESS FOR AMMONIA SYNTHESIS

Review Report
Submitted to the University of Calicut
In Partial Fulfilment of the Requirements
For the Award of the Degree of

BACHELOR OF SCIENCE IN CHEMISTRY

Submitted by

RAHANA E R (Reg no: PWASSCH035)

Under the Guidance of

Dr. Anu Jose

Assistant professor in Chemistry



**DEPARTMENT OF CHEMISTRY
PROVIDENCE WOMEN'S COLLEGE
CALICUT - 09
2020-2021**

CERTIFICATE

Certified that this review entitled "HABERPROCESS FOR AMMONIA SYNTHESIS" is based on the bonafide work done by RAHANA E R (PWABSCH035) under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of **Bachelor of science in chemistry** in the year 2020-2021.

Station: Calicut

Date: *March 2021*



Dr. Anu Jose

Assistant Professor

Department of Chemistry



For Dr. Gigy Abraham

Head of the department

Department of chemistry



Internal Examiner

Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

THE STRUCTURE OF CARBOHYDRATES AND VITAMIN C

Review Report

Submitted to the University of Calicut
In Partial Fulfilment of the Requirements
For the Award of the Degree of

BACHELOR OF SCIENCE IN CHEMISTRY

Submitted by

SHALIMA M(PWASSCH036)

Under the Guidance of

Dr. Anu Jose

Assistant professor in Chemistry



**DEPARTMENT OF CHEMISTRY
PROVIDENCE WOMEN'S COLLEGE**

CALICUT - 09


2020 - 2021

CERTIFICATE

Certified that this review entitled "THE STRUCTURE OF CABOHYDRATES AND VITAMIN C" BY WALTER NORMAN HAWORTH is based on the bonafide work one by SHALIMA M (Reg No. PWASSCH036) under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of **Bachelor of science in chemistry** in the year 2020-2021

Station: Calicut

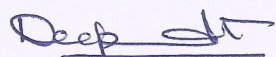
Date: *March 2021*



Dr. Anu Jose


Assistant professor

Department of Chemistry



For Dr. Gigy Abraham

Head of the Department of chemistry



Internal Examiner

Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

**THE DETERMINATION OF STRUCTURE OF PROTEINS
BY FREDERIC SANGER**

Review Report

Submitted to the University of Calicut
In Partial Fulfilment of the Requirements
For the Award of the Degree of

BACHELOR OF SCIENCE IN CHEMISTRY

Submitted by

SHANIMA M(PWASSCH037)

Under the Guidance of

Dr. Anu Jose

Assistant professor in Chemistry



**DEPARTMENT OF CHEMISTRY
PROVIDENCE WOMEN'S COLLEGE
CALICUT - 09
2020 - 2021**

CERTIFICATE

Certified that this review entitled "THE DETERMINATION OF THE STRUCTURE OF PROTEINS BY FREDERIC SANGER" is based on the bonafide work done by SHANIMA M (Reg No. PWASSCH037) under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of Bachelor of science in chemistry in the year 2020-2021

Station: *Calicut*

Date: *March 2021*

Deep J
For Dr. Gigy Abraham

Head of the Department of chemistry

Anu Jose

Dr. Anu Jose

Assistant Professor

Department of chemistry

Internal Examiners

Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

**GREEN SYNTHESIS OF SILVER NANOPARTICLE USING
HIBISCUS ROSASINESIS AND ITS ANTIBACTERIAL
ACTIVITY**

Review report

Submitted to the University of Calicut

In partial fulfilment of the requirements

For the Award of degree of

BACHELOR OF SCIENCE IN CHEMISTRY

Submitted by

SNEHA SUDHEER N. (Reg no: PWASSCH039)

Under the guidance of

Dr. Anu Jose

Assistant Professor in Chemistry.



**DEPARTMENT OF CHEMISTRY
PROVIDENCE WOMEN'S COLLEGE**

CALICUT-09

2020-2021

CERTIFICATE

Certified that this review entitled "**GREEN SYNTHESIS OF SILVER NANOPARTICLE USING HIBISCUS ROSASINENSIS AND ITS ANTIBACTERIAL ACTIVITY**" is based on the bonafide work done by **SNEHA SUDHEER N (PWASSCH039)** under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of **Bachelor of Science in Chemistry** in the year 2020-2021.

Station : Calicut


Dr. Anu Jose

Date: *March 2021*

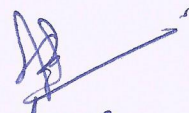
Assistant Professor

Department of Chemistry


For Dr. Gigy Abraham

Head of the Department

Department of Chemistry


Internal Examiners
Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

**REDUCTION OF STRENGTH OF DOMESTIC
WASTEWATER USING NATURAL FIBROUS
MATERIALS**

PROJECT REPORT

SUBMITTED TO

UNIVERSITY OF CALICUT

**In partial fulfillment of the requirement for the award of degree of
BACHELOR OF SCIENCE in CHEMISTRY**

BY

| | |
|----------------------|-------------------|
| HAIFA PARVEEN | ANAGHA V |
| PWASSCH001 | PWASSCH019 |
| SNEHA S | ANUSREE |
| PWASSCH016 | PWASSCH022 |

FEDUVA AHAMMED T

PWASSCH028



**DEPARTMENT OF CHEMISTRY
PROVIDENCE WOMEN'S COLLEGE, CALICUT**


MARCH 2021


CERTIFICATE

This is to certify that the project titled reduction of strength of domestic waste water using natural fibrous materials is the original work carried out by Haifa Parveen, Reg.no:PWASSCH001, Sneha S, Reg.no:PWASSCH016, Anagha V, Reg.no:PWASSCH019, Anusree, Reg.no:PWASSCH022, Feduva Ahammed T, Reg.no:PWASSCH028 B.Sc Chemistry, Providence Women's College, Calicut under the guidance of Dr.Gigy Abraham Ph.D, Associate professor of Chemistry, Providence Women's College, Calicut.

Calicut

18.01.2021


Dr. Gigy Abraham
DR. GIGY ABRAHAM
ASSOCIATE PROFESSOR
DEPT. OF CHEMISTRY
PROVIDENCE WOMEN'S COLLEGE
CALICUT


Internal Examiner
Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

FOOD ADULTERATION

PROJECT REPORT

SUBMITTED TO

UNIVERSITY OF CALICUT

In Partial Fulfillment of the Requirement for the Award of Degree of

BACHELOR OF SCIENCE IN CHEMISTRY

BY

ABHIRAMI S M REG NO: PWASSCH002

AGNA EDISON REG NO: PWASSCH003

AISHWARYA P REG NO: PWASSCH004

ALEENA JERARDE REG NO: PWASSCH006

ANAGHA M REG NO: PWASSCH007



DEPARTMENT OF CHEMISTRY

PROVIDENCE WOMENS'S COLLEGE, CALICUT

MARCH 2021

CERTIFICATE

This is to certify that the project titled 'Food Adulteration' is the original work carried out by Abhirami S M Reg.No: PWASSCH002, Agna Edison Reg.No: PWASSCH003, Aishwarya P Reg.No: PWASSCH004, Aleena Jerarde Reg.No: PWASSCH006, Anagha M Reg.No: PWASSCH007, of VI semester B.Sc. Chemistry, Providence Women's College, Calicut under the guidance of Dr. Gigy Abraham, Ph.D., Associate Professor and Head, Dept. of Chemistry, Providence Women's College, Calicut.

Calicut

31-03-2021



Dr. Gigy Abraham, Ph. D

DR. GIGY ABRAHAM
ASSOCIATE PROFESSOR
DEPT. OF CHEMISTRY
PROVIDENCE WOMEN'S COLLEGE
CALICUT



Internal Examiners

Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

Sir Bernard Lucas Feringa

*Review report submitted to University of Calicut in partial fulfillment
of the requirement for the award of the degree*

Bachelor of Science in CHEMISTRY

Submitted by

ANN MARIA JOY

PWASSCH008



Department of Chemistry

Providence women's College, Calicut

March 2021

CERTIFICATE

This is to certify that the review titled "Sir Bernard Lucas Feringa" is the original work carried out by Ann Maria Joy (PWASSCH008) for the award of the degree of Bachelor of Science in Chemistry of University of Calicut under my supervision and guidance at Department of Chemistry, Providence Women's College, Calicut.

Sr. Asha Thomas
Calicut
March 2021



Sr. Asha Thomas
Head of the Department
Department of Chemistry
Providence Women's College
Calicut.



Internal Examiner
Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

STUDY OF CORROSION INHIBITION OF MILD STEEL USING
TAMARINDUS INDICA (TAMARIND) RIND

SUBMITTED BY,

Navya pramod (PWASSCH012)

Sandra Maria (PWASSCH013)

Swetha Sajeev(PWASSCH017)

Anagha K (PWASSCH018)

Anjali EM (PWASSCH020)

Aparna janish (PWASSCH023)

Under the guidance of

Sr. Asha Thomas

Assistant professor in Chemistry

Submitted to the University of Calicut in Partial Fulfillment of the Requirement

For the award of the Degree of

BACHELOR OF SCIENCE in CHEMISTRY



DEPARTMENT OF CHEMISTRY

PROVIDENCE WOMEN'S COLLEGE

CALICUT-09

2020-21

CERTIFICATE

Certified that this project entitled "STUDY OF CORROSION INHIBITION OF MILD STEEL BY TAMARIND INDICA (TAMARIND) RIND" is based on the bonafide work done by NAVYA PRAMOD (PWASSCH012), SANDRA MARIA (PWASSCH013), SWETHA SAJEEV (PWASSCH017), ANAGHA K (PWASSCH018), ANJALI EM (PWASSCH020), APARNA JANISH (PWASSCH023), under my supervision and guidance in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in Chemistry in the year 2020-21.

Sr. Asha Thomas

Asst. professor

Department of Chemistry

Providence Women's College

Internal Examiner
Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

DETERMINATION OF CAFFEINE IN TEA SAMPLE

Project report

Submitted to the University of Calicut in partial
fulfillment of the requirement for the award of the Degree
of Bachelor of Science in Chemistry

By

**ANUSMERA P (PWASSCH021), AISWARYA K
(PWASSCH005), ARCHANA DINESAN A
(PWASSCH024), SANGEETHA M (PWASSCH014)**



Department of Chemistry

The Providence Women's College, Calicut

(Affiliated to University of Calicut)



The Providence Women's College,

Calicut, 673009, India

Re-accredited with A+ Grade by NAAC

(Affiliated to University of Calicut)

CERTIFICATE

This is to certify that the project entitled "Determination of caffeine in tea samples" submitted to the University of Calicut in partial fulfilment of the requirement for award of Degree of Bachelor of Science in Chemistry is record of the work done by Anusmera P, Aishwarya K, Archana Dinesan A and Sangeetha M during their study in the Department of Chemistry, The Providence Women's College, Calicut, under our guidance.

Dr.GIGY ABRAHAM


Dr.SAREENA C

Head of Department

Chemistry

Place: Kozhikode

Date : 29 March 2021


Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

DISCOVERY OF RADIUM AND POLONIUM BY MARIE CURIE

Review Report

Submitted to the University of Calicut
In Partial Fulfilment of the Requirements
For the Award of the Degree of

BACHELOR OF SCIENCE IN CHEMISTRY

Submitted by

SUDARSANA M. M. (Reg no:PWASSCHO40)

Under the Guidance of

Dr. Anu Jose

Assistant professor in Chemistry




**DEPARTMENT OF CHEMISTRY
PROVIDENCE WOMEN'S COLLEGE
CALICUT - 09
2020-2021**

CERTIFICATE

Certified that this review entitled "DISCOVERY OF RADIUM AND POLONIUM BY MARIE CURIE" is based on the bonafide work done by Sudarsana M M (PWASSCH040) under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of **Bachelor of Science in Chemistry** in the year 2020-2021.

Station: Calicut

Date: March 2021


For Dr. Gigy Abraham


Head of the department

Department of chemistry


Dr. Anu Jose

Assistant Professor

Department of Chemistry


Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

Sir Harold W Kroto

*Review report submitted to University of Calicut in partial fulfillment
of the requirement for the award of the degree*

Bachelor of Science in CHEMISTRY

Submitted by

CHINMAYI L MANOJ

PWASSCH010

KAVYA MOHAN

PWASSCH033





Department of Chemistry
Providence women's College, Calicut
March 2021

CERTIFICATE

This is to certify that the review titled "Sir Harold W Kroto" is the original work carried out by Chinmayi L Manoj (PWASSCH010) and Kavya Mohan (PWASSCH033) for the award of the degree of Bachelor of Science in Chemistry of University of Calicut under my supervision and guidance at Department of Chemistry, Providence Women's College, Calicut.

Sr. Asha Thomas
Calicut
March 2021


Sr. Asha Thomas
Head of the Department
Department of Chemistry
Providence Women's College
Calicut.


Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

WENER HEISENBERG

Review report submitted to University of Calicut in partial fulfillment of the requirement for the award of the degree

Bachelor of Science in CHEMISTRY

Submitted by

Greeta Alphonsa George

PWASSCH030



Department of Chemistry

Providence women's College, Calicut

March 2021

CERTIFICATE

This is to certify that the review titled "WENER HEISENBERG" is the original work carried out by Greta Alphonsa George (PWASSCH030) for the award of the degree of Bachelor of Science in Chemistry of University of Calicut under my supervision and guidance at Department of Chemistry, Providence Women's College, Calicut.



Dr. Deepthi Jose

Calicut
March 2021



Internal Examiner
Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

SIR JEAN –PIERRE SAUVAGE

*Review report submitted to University of Calicut in partial fulfillment of
the requirement for the award of the degree*

Bachelor of Science in CHEMISTRY

Submitted by

ARCHANA SASIDHARAN

PWASSCH009



Department of Chemistry

Providence women's College, Calicut

March 2021


CERTIFICATE

This is to certify that the review titled "SIR JEAN PIERRE SAUVAGE" is the original work carried out by ARCHANA SASIDHARAN (PWASSCH009) for the award of the degree of Bachelor of Science in Chemistry of University of Calicut under my supervision and guidance at Department of Chemistry, Providence Women's College, Calicut.

Sr. Asha Thomas
Calicut
March 2021



Sr. Asha Thomas
Head of the Department
Department of Chemistry
Providence Women's College
Calicut.



Internal Examiner
Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9

J FRASER STODDART

Review report submitted to University of Calicut
in partial fulfillment of the requirement for the award of the degree

Bachelor of Science in CHEMISTRY

Submitted by

Keerthana MP

PWASSCH011



**Department of Chemistry
Providence women's College, Calicut**

March 2021

CERTIFICATE

This is to certify that the review titled "J FRASER STODDART" is the original work carried out by **Keerthana MP (PWASSCH011)** for the award of the degree of Bachelor of Science in Chemistry of University of Calicut under my supervision and guidance at Department of Chemistry, Providence Women's College, Calicut.

Calicut
March 2021




Sr. Asha Thomas

Head of the Department

Department of chemistry

Providence Women's College, Calicut

Internal Examiner

Sr. ASHA THOMAS
Assistant Professor & Head
Dept. of Chemistry
Providence Women's College
Calicut-9