

**A BRIEF STUDY OF WATER QUALITY PARAMETERS IN
KOLLAM DISTRICT, KERALA STATE**

DISSERTATION

Submitted to the Fatima Mata National College (Autonomous) in partial
Fulfillment of the requirements for the award of the degree of

BACHELOR OF SCIENCE

IN

CHEMISTRY

BY

PREVITHA PRENRAJ U1613047

SUBJECT CODE: CH1646



FATIMA MATA NATIONAL COLLEGE (Autonomous), KOLLAM

2019

Valued Examiners

1).....
27/5/19

2).....
27/05/19

CERTIFICATE

This is to certify that **PREVITHA PRENRAJ** BSc VI Semester student of Fatima Mata National College, Kollam had effectively carried out the project work entitled “**A BRIEF STDY DIFFERENT WATER QUALITY PARAMETERS IN KOLLAM DISTRICT, KERALA STATE**” in the Department of Chemistry at Fatima Mata national College (Autonomous) , Kollam under the guidance of Dr. Shibu Joseph S T

Shibu Joseph S T

Dr. SHIBU JOSEPH S T

Supervising Teacher

Shibu Joseph S T
02/5/19

Dr. APSARA A P

Head of the department

“QUALITATIVE ANALYSIS OF VARIOUS CONFECTIONARY CHOCOLATES”

DISSERTATION

Submitted to the Fatima Mata National College (Autonomous) in partial

fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE

IN

CHEMISTRY

BY

SOJIYA C

U1613050

SUBJECT CODE: CH1646



FATIMA MATA NATIONAL COLLEGE (Autonomous)

KOLLAM

Valued Examiners: 1).....

[Signature]
27/5/19

2019

2).....
[Signature]
27/05/19

CERTIFICATE

This is to certify that **SOJIYA C** B.Sc VI Semester student of Fatima Mata National College, Kollam had effectively carried out the project work entitled, **“QUALITATIVE ANALYSIS OF VARIOUS CONFECTIONARY CHOCOLATES”** in the Department of Chemistry at Fatima Mata National College (Autonomous), Kollam under the guidance of **Dr. APARNA K BALAN**.



Dr. APARNA K. BALAN

Supervising Teacher



Dr. APSARA A. P.

Head of the Department

EFFECT OF TEMPERATURE ON ACID - CATALYSED HYDROLYSIS OF METHYL ACETATE

DISSERTATION

Submitted to the Fatima Mata National College (Autonomous) in partial
fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE

IN

CHEMISTRY

BY

AJIS MARIA	U1613006
ROHINI S	U1613016
AVANI S	U1613027
POOJAKRISHNAN G S	U1613046
JINCY M	U1613038

SUBJECT CODE : CH1646



FATIMA MAT A NATIONAL COLLEGE (Autonomous)

KOLLAM

2019

CERTIFICATE

This is to certify that the project entitled "Effect of temperature on Acid catalysed hydrolysis of methyl acetate" have been effectively carried out by sixth semester students

Ajis Maria	U1613006
Rohini S	U1613016
Avani S	U1613027
Poojakrishnan G S	U1613046
Jincy M	U1613038

at Fatima Mata National College, Kollam, under the guidance of Ms. Mini V in the partial fulfillment of the requirements for the award of the degree



Ms. Mini V.

Supervising Teacher



Dr. Apsara A. P

Head of the department

APPLICATIONS OF BIOCHAR IN THE REMOVAL OF A TEXTLE DYE FROM AQUEOUS SYSTEM

DISSERTATION

Submitted to the Fatima Mata National College (Autonomous), Kollam in
partial fulfilment of the requirements for the award of the degree of
BACHELOR OF SCIENCE

IN CHEMISTRY BY

BINCY MINIBENNY U1613004

PARVATHY P S U1613014

JANAF J U1613036

NEHA MARIA GEORGE U1613046

SUBJECT CODE: CH1646



FATIMA MATA NATIONAL COLLEGE (Autonomous),
KOLLAM

2019

Valued Examiners

1.

2.

CERTIFICATE

This is to certify that **BINCY MINI BENNY, PARVATHY P S, JANAT J, NEHA MARIA GEORGE**, B.Sc VIth Semester students of Fatima Mata National College, Kollam had effectively carried out the project work entitled, **"APPLICATIONS OF BIOCHAR IN THE REMOVAL OF A TEXTILE DYE FROM AQUEOUS SYSTEM"** in the Department of Chemistry at Fatima Mata National College (Autonomous), Kollam under the guidance **Dr. NOELINE B FERNANDEZ**.



Dr. NOELINE B FERNANDEZ

Supervising Teacher



Dr. APSARA A P

Head of the Department

**MEASUREMENT OF pH AND TITRATABLE ACIDITY OF FRUIT JUICES AND
THEIR ROLE IN AN ALKALINE DIET**

*Dissertation submitted to Fatima Mata National College (Autonomous) in partial
fulfillment of the requirements for the award of the degree of*

BACHELOR OF SCIENCE

IN

CHEMISTRY

By

ANCHU R

U1613022

AMAL RAJ

U1613021

DONA VARGHESE

U1613033

JUSTY JACOB

U1613011

PARVATHY N

U1613045

Course code : CH 1645



**DEPARTMENT OF CHEMISTRY
FATIMA MATA NATIONAL COLLEGE**

KOLLAM-691001

MARCH 2019

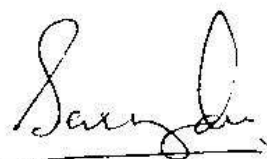
Valued Examiners

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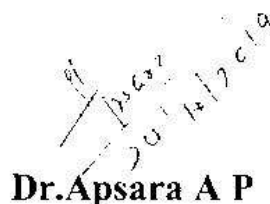
CERTIFICATE

This is to verify that ANCHU R, AMAL RAJ, DONA VARGHESE, JUSTY JACOB, PARVATHY N B.Sc VI semester students of Fatima Mata National College had effectively carried out the project work entitled, "MEASUREMENT OF pH AND TITRATABLE ACIDITY OF FRUIT JUICES AND THEIR ROLE IN AN ALKALINE DIET" in the Department of chemistry at Fatima Mata National College (Autonomous), Kollam under the guidance of **Dr.Sarau Devi A.**



Dr Sarau Devi A

Supervising Teacher



Dr.Apsara A P

Head of the Department

THE EFFECT OF SOLVENT POLARITY ON THIN LAYER CHROMATOGRAPHY

*Dissertation submitted to the
Fatima Mata National College (Autonomous), Kollam in partial
fulfilment of the requirements for the award of the degree of*

BACHELOR OF SCIENCE IN CHEMISTRY

BY

ANCY ACHANKUNJU	U1613008
VINCY G	U1613018
BEENU C	U1613029
MAHALEKSHMI M S	U1613040
ROSARY D	U1613048

SUBJECT CODE:CH1646



FATIMA MATA NATIONAL COLLEGE (Autonomous)

KOLLAM

MARCH 2019

Valued Examiners:- 1).....

2).....

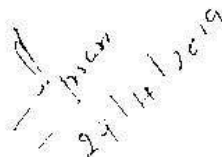
CERTIFICATE

This is to certify that **ANCY ACHANKUNJU, VINCY G, BEENU C, MAHALEKSMI MS, ROSARY D**, B.Sc sixth semester students of Fatima Mata National College (Autonomous), Kollam have been effectively carried out the project work entitled **"THE EFFECT OF SOLVENT POLARITY ON THIN LAYER CHROMATOGRAPHY"** in the Department of chemistry under the guidance of **Ms.SHERIN MOL C B**.



Ms.SHERIN MOL C B

Supervising Teacher



DR APSARA A P

Head of the Department

**EXTRACTION OF NICOTINE SULPHATES FROM
CIGARATTE SAMPLES**

DISSERTATION

Submitted to the Fatima Mata National College (Autonomous) in Partial

Fulfillment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN CHEMISTRY

BY

ARCHANA R **U1613009**

AGNES P **U1613019**

DEVUKRISHNAA **U1613031**

SHILPA H **U1613049**

TIMY THANKAM THOMAS **U1613053**

SUBJECT CODE : CH1646



FATIMA MATA NATIONAL COLLEGE (Autonomous), KOLLAM

2019

Valued Examiners

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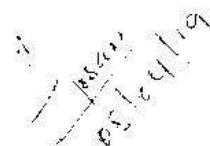
CERTIFICATE

This is to certify that ARCHANA R, AGNES P, DEVUKRISHNA A, SHILPA H, TIMY THANKAM THOMAS B.Sc VI Semester students of Fatima Mata National College, Kollam had effectively carried out the project work entitled "EXTRACTION OF NICOTINE SULPHATES FROM CIGARATTE SAMPLES" in the Department of Chemistry at Fatima Mata National College (Autonomous), Kollam under the guidance of Dr. Sunil Culas



Dr. SUNIL CULAS

Supervising Teacher



Dr. APSARA A P

Head of the department

FIRST DEGREE PROGRAMME IN CHEMISTRY

**SYNTHESIS OF POLYANILINE (PANI) BY
CHEMICAL OXIDATIVE METHOD**

Dissertation submitted to the University of Kerala in partial fulfillment

of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN CHEMISTRY

BY

AISHWARYA ANIL	U1613005
POOJA V MANI	U1613015
ARATHI G	U1613026
JASMINE ANTONY	U1613037
NISHA N	U1613044

COURSE CODE : CH1646



DEPARTMENT OF CHEMISTRY

FATIMA MATA NATIONAL COLLEGE

(Autonomous)

KOLLAM- 691001

MARCH 2019

Valued Examiners

1).....

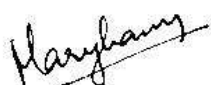
2).....
Signature
Date 25/3/19

CERTIFICATE

This is to certify that the project entitled “**SYNTHESIS OF POLYANILINE (PANI) BY CHEMICAL OXIDATIVE METHOD**” has been effectively carried out by the following students of sixth semester (CBCSS).

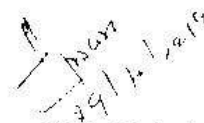
AISHWARYA ANIL	U1613005
POOJA V MANI	U1613015
ARATHI G	U1613026
JASMINE ANTONY	U1613037
NISHA N	U1613044

at Fatima Mata National College Autonomous Kollam, under the guidance of Dr. Mary Nancy T.E., on partial fulfillment of requirements for award of the degree



Dr. MARY NANCY T. E.

Supervising teacher



Dr. APSARA A. P.

Head of the Department

**REMOVAL AND RECOVERY OF DYES USING
POTATO STARCH – BATCH ADSORPTION
STUDIES**

DISSERTATION

**Submitted to Fatima Mata National College (Autonomous) for the
partial fulfillment of the requirements for the award of the degree of**

BACHELOR OF SCIENCE

IN

CHEMISTRY

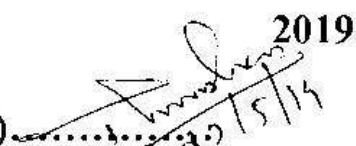
BY


ARJUN A	U1613003
NEENA SEKHAR	U1613013
ANITA JOSEPH	U1613024
GAYATHRI B	U1613035
MEBIN THOMAS	U1613042

SUBJECT CODE : CH1646



FATIMA MATA NATIONAL COLLEGE (AUTONOMOUS), KOLLAM

Valued Examiners: 1)  2019

2) 
Dr. Chidhura Gopinath

CERTIFICATE

This is to certify that ARJUN A , NEENA SEKHAR , ANITA JOSEPH ,
JIYATHIRI B , MEBIN THOMAS B.Sc Chemistry Semester VI students,
Fatima Mata National College , Kollam had effectively carried out the project
work entitled , “ REMOVAL AND RECOVERY OF DYES USING POTATO
STARCH- BATCH ADSORPTION STUDIES” in the Department of Chemistry,
Fatima Mata National College(Autonomous), Kollam under the supervision of
Dr. Manohar D Mullassery


Dr. MANOHAR D MULLASSERY

Supervising Teacher

Dr. APSARA A P

Head of the Department

CHEMICAL ANALYSIS OF HONEY BY QUALITATIVE METHODS

DISSERTATION

**Submitted to Fatima Mata National college(Autonomous),in partial
fulfilment of the requirement for the award of the degree of**

BACHELOR OF SCIENCE

IN

CHEMISTRY

BY

ANANTHA KRISHNAN

U1613002

MERLIN M

U1613012

ANILA K

U1613023

FEMI SHIBU

U1613034

MALAVIKA S

U1613041

SUBJECT CODE : CH1646



**FATIMA MATA NATIONAL COLLEGE (Autonomous)
KOLLAM**

2019

Valued examiners: 1).....

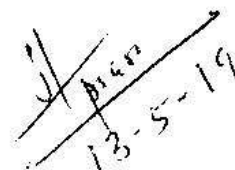
2).....

CERTIFICATE

This is to certify that **ANANTHA KRISHNAN, MERLIN M, ANILA K, FEMI SHIBU, MALAVIKA S** BSc VI semester students of Fatima Mata National College(Autonomous), Kollam had effectively carried out the project work entitled **"CHEMICAL ANALYSIS OF HONEY BY QUALITATIVE METHODS"** in the department of chemistry at Fatima Mata National College(Autonomous), kollam under guidance of **Dr. BIJU MATHEW**.



Dr. BIJU MATHEW
Supervising Teacher



Dr. APSARA A P
Head of the Department

FIRST DEGREE PROGRAM IN CHEMISTRY (CBCSS)

“PREPARATION OF DYES”

*Dissertation submitted to the Fatima Mata National College (Autonomous)
in partial fulfilment of the requirements for the award of the degree of*

BACHELOR OF SCIENCE

IN

POLYMER CHEMISTRY

BY

GEEVA JOHNSON	U1614012
JENY F MELVIN	U1614013
JESLIN FRANCIS	U1614006
SAJAN S	U1614016
YADHUKRISHNAN J	U1613054



DEPARTMENT OF CHEMISTRY

FATIMA MATA NATIONAL COLLEGE

KOLLAM-691001

MARCH 2019

Valued examiner

1).....

2).....

CERTIFICATE

This is to certify that the project entitled “**Preparation of Dyes**” have been effectively carried out by the sixth semester students (**CBCSS**)

Geeva Johnson	U1614012
Jeny.F.Melvin	U1614013
Jeslin Francis	U1614006
Sajan.S	U1614016
Yadhukrishnan.J	U1613054

at Fatima Mata National College,(Autonomous) ,Kollam, under the guidance of **Dr. Apsara.A.P** in partial fulfillment of the requirements for the award of degree.



Dr. Apsara.A.P

Supervising Teacher



Dr. Apsara.A.P

Head of the Department

FIRST DEGREE PROGRAMME IN POLYMER CHEMISTRY (CBCSS)

" Preparation Of Laboratory Reagents"

Dissertation submitted to the Fatima Mata National College (Autonomous) in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE

IN

POLYMER CHEMISTRY

By

BINDHU S

U1614004

SUBJECT CODE : PO1646



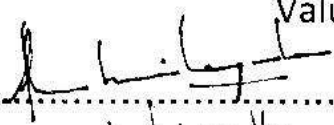
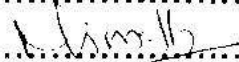
DEPARTMENT OF CHEMISTRY

FATIMA MATA NATIONAL COLLEGE (AUTONOMOUS)

KOLLAM – 691001

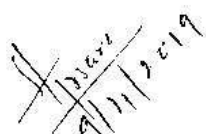
MARCH 2019

Valued Examiners

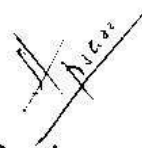
1.  2.
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Certificate

This is to certify that BINDHU S BSc VI semester student of Fatima Mata National College , Kollam had effectively carried out the project work entitled "PREPARATION OF LABORATORY REAGENTS " in the Department of Chemistry at Fatima Mata National College (Autonomous) , kollam under the guidance of Dr. Apsara. A P



Dr. Apsara A P
Supervising Teacher



Dr. Apsara A P
Head of the department

FIRST DEGREE PROGRAM IN CHEMISTRY (CBCSS)

“PREPARATION OF PVA-STARCH BLEND”

Dissertation submitted to the Fatima Mata National College (Autonomous) in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE

IN

POLYMER CHEMISTRY

BY

AKHIL S MOHAN	U1614008
ANN JULIE FREDY	U1614009
FATHIMA V	U1614005
RONY T M	U1614015
SIBIJA DAS B	U1614007



DEPARTMENT OF CHEMISTRY

FATIMA MATA NATIONAL COLLEGE

KOLLAM-691001

MARCH 2019

Valued examiner

1).....

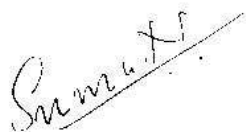
2).....

CERTIFICATE

This is to certify that the project entitled “**Preparation of PVA Starch blend**” have been effectively carried out by the sixth semester students (CBCSS)

Akhil S Mohan	U1614008
Ann Julie Freedy	U1614009
Fathima.V	U1614005
Rony. T.M	U1614015
Sibija Das. B	U1614007

at Fatima Mata National College, University of kerala, Kollam, under the guidance of **Dr. Suma .N** in the partial fulfillment of the requirement for the award of the degree.



Dr. Suma .N

Supervising Teacher



Dr. Apsara. A. P

Head of the Department