

“Role of chemistry in covid 19”

A PROJECT REPORT SUBMITTED BY

Ms. R. AISHWARYA (2018C01)

Ms. A. ANUSIYA (2018C03)

Ms. A. ASHA BANU (2018C04)

Ms. M. BACKIYA LAKSHMI (2018C05)

In partial fulfilment of the requirement for the award of the degree

BACHELOR OF SCIENCE

IN

CHEMISTRY

UNDER THE GUIDANCE OF

Dr. B. MEDONA



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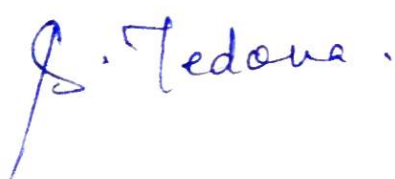
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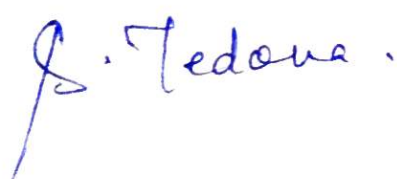
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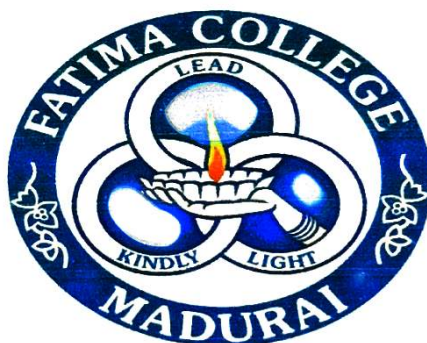
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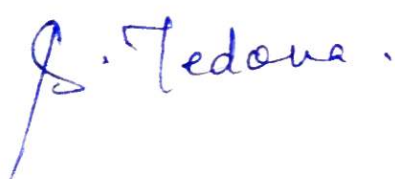
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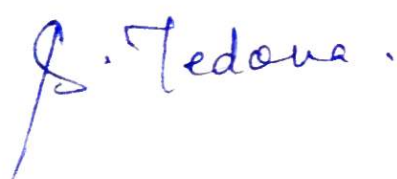
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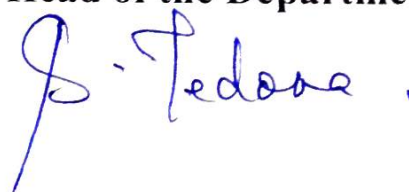
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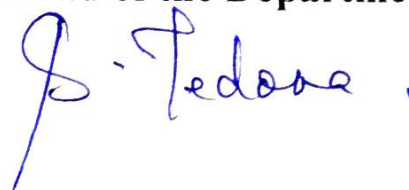
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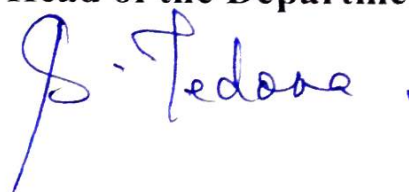
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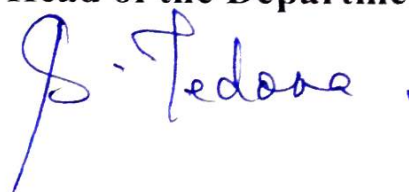
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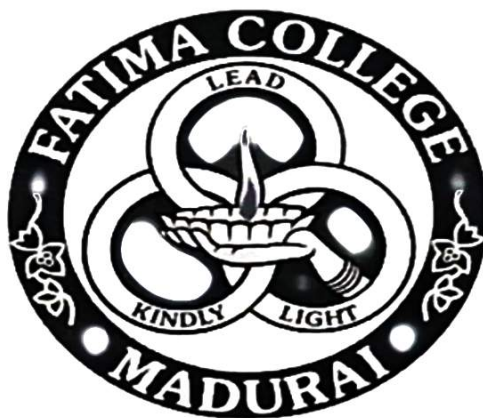
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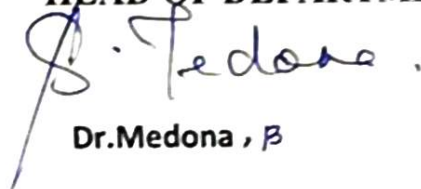
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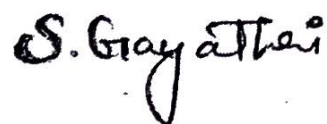
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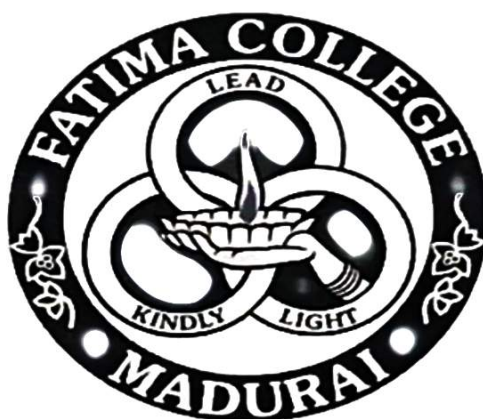
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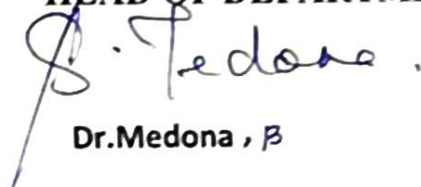
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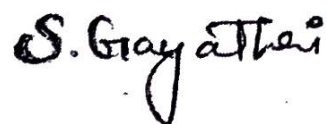
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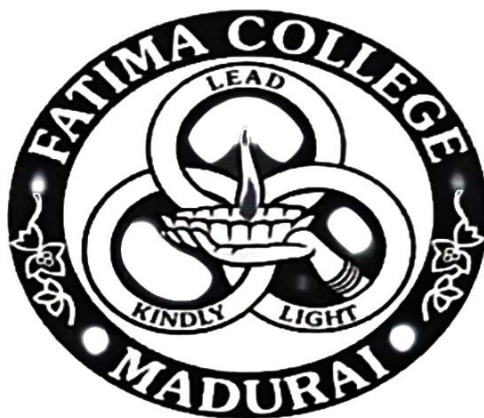
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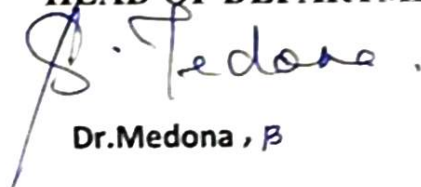
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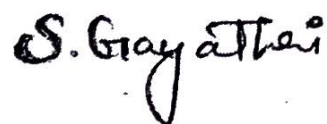
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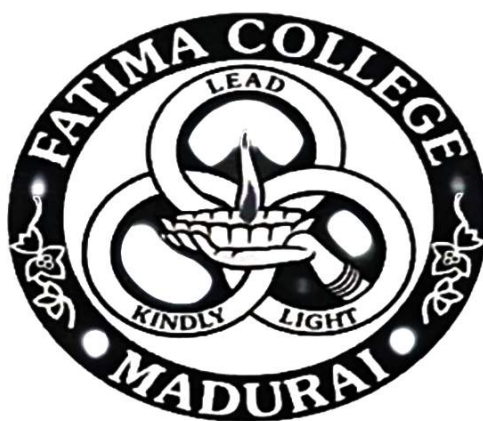
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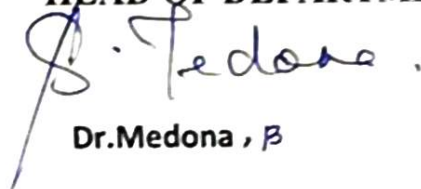
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Mrs . RM.Nagalakshmi. M.Sc, M.Phil , B.Ed

**Assistant Professor
Department of chemistry
Fatima college
Madurai- 625 018**

SIGNATURE OF THE

HEAD OF DEPARTMENT



Dr.Medona , B

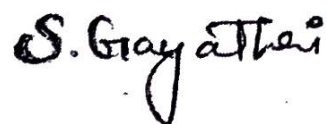
**Head and associate professor
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Fatima college
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We do hereby declare that this dissertation entitled “**RECENT RESEARCH ON COVID 19 DRUGS**” submitted to Madurai Kamarajar University in partial fulfillment of the requirement for the award of **BACHELOR OF SCIENCE IN CHEMISTRY**, is a record of original search work done by us. We also declare that this dissertation or part of work has not been published earlier elsewhere in any manner.




R. HEMA DHARSHINI(2018C11)



S. GAYATHRI(2018C10)



H. JANANI(2018C13)



R. JANANI(2018C14)

VACCINES USED FOR COVID 19 IN OTHER COUNTRIES

A PROJECT REPORT SUBMITTED BY

Ms. Sheeba .K (2018C32)

Ms. Jasmine Jenobha .D (2018C15)

Ms. Jayasudha .J (2018C16)

Ms. Jenifer .T (2018C17)

In partial fulfillment of the requirement for the award of the degree

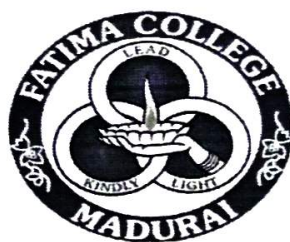
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DR. M. PRIYA DHARSANI



FATIMA COLLEGE (AUTONOMOUS)

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Mary land, Madurai

April -2021

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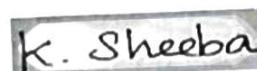
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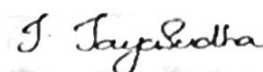
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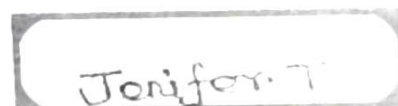
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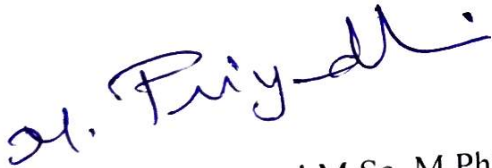
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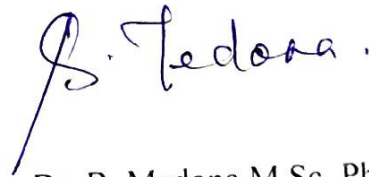
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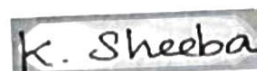


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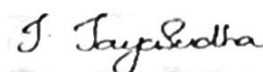
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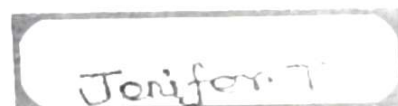
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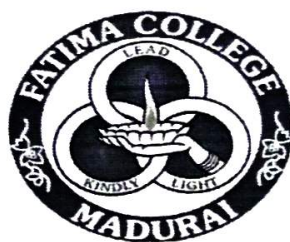
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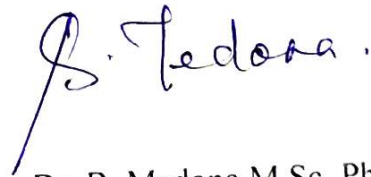
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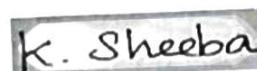


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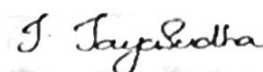
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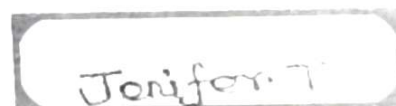
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D.Jasmine jenobha



J.Jayasudha



T.Jenifer

CLINICAL TRIALS OF COVAXIN IN INDIA

A PROJECT REPORT SUBMITTED BY

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Ms R.KARTHIGA SELVI (Register No:2018C19)

Ms K.KEERTHIKA (Register No:2018C21)

Ms V.SUBASHINI (Register No:2018C35)

In partial fulfillment of the requirement for the

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APRIL 2021

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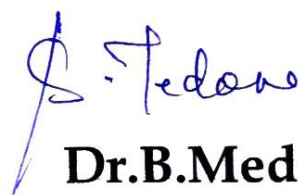
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Dr.B.Medona

Head of the Department

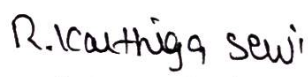
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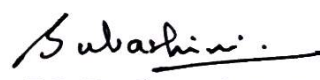
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J. Jeslin Sneha


R. Karthiga Selvi


K. Keerthika


V. Subashini

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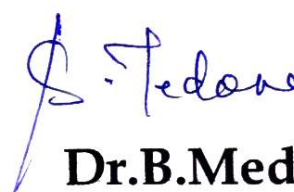

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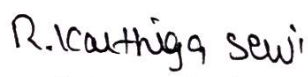
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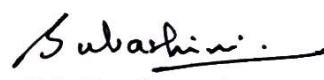
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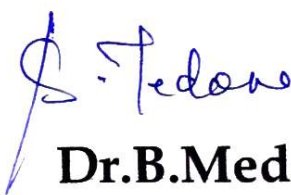
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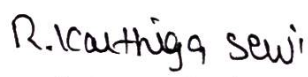
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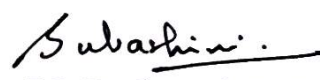
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R. Karthiga Selvi


K. Keerthika


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HERBAL MEDICINE FOR COVID – 19

A PROJECT REPORT SUBMITTED BY

Ms. SWETHA.T (2018C37)

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Ms. MANSOORUL SAJITHA THASLEEM.M (2018C25)

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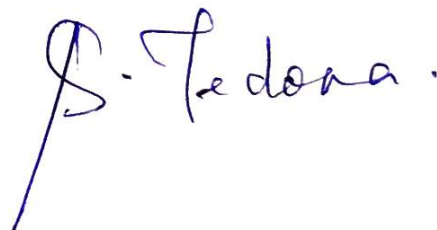
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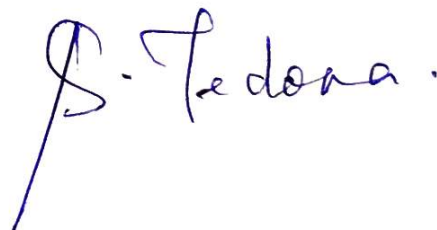
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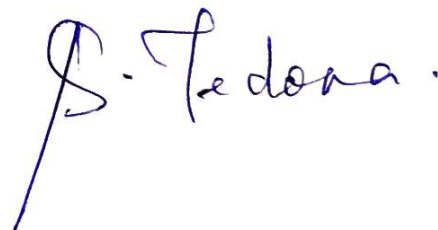
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HOMEOPATHY MEDICINES FOR COVID-19

A Dissertation submitted to Fatima College (Autonomous) Affiliated to
Madurai kamaraj University in partial fulfillment of the requirements for the
award of the degree of

BACHELOR OF SCIENCE IN CHEMISTRY

Ms. M.SUBASHINI

(Reg. No. 2018C43)

Ms. J.MARIYA JOSE PRINCIYA

(Reg. No. 2018C26)

Ms. K.R.RAJA DHIVYA

(Reg. No. 2018C30)

Ms. S.SWETHA

(Reg. No. 2018C36)

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Signature of the Internal Guide

Department

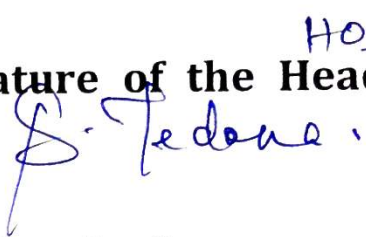
Dr. K.R.Subimol

Assistant Professor

Department of Chemistry

Fatima College

Madurai - 625018.


Signature of the Head of

Dr. B. Medona

Head and Associate Professor

Department of Chemistry

Fatima College

Madurai - 625018.

DECLARATION

We do hereby declare that this dissertation entitled "**HOMEOPATHY MEDICINES FOR COVID-19**" submitted to Madurai Kamaraj University in partial fulfillment of requirement for the award of **BACHELOR OF SCIENCE IN CHEMISTRY** is a record of original research work done by us. We also declare that this dissertation or part of work has not been published earlier elsewhere in any manner.

M. Subashini

M. SUBASHINI

J. Mariya Jose Princiya

J. MARIYA JOSE PRINCIYA

K. R. Rajadhivya

K. R. RAJA DHIVYA

S. Swetha

S. SWETHA

STRUCTURE AND REACTIVITY OF COVID-19 VIRUS

A PROJECT REPORT

Submitted by

VISWATHIKA .K (2018C38)

MARY JERAFIN .S (2018C27)

MERLIN MARIA PRAVEENA .A (2018C28)

POOJA .V (2018C29)

in partial fulfillment for the award of the degree

of

BACHELOR OF SCIENCE

in

CHEMISTRY

UNDER THE GUIDANCE OF

Dr. Mrs. B. SUGANTHANA



FATIMA COLLEGE, (AUTONOMOUS)

Re-Accredited with 'A' Grade by NAAC (3rd cycle) College with Potential for Excellence (2004-2019) 74th Rank in India Ranking (NIRF) by MHRD Mary Land, Madurai-625018, Tamil Nadu.

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Signature of the candidates

K.VISWATHIKA-2018C38

S.MARY JERAFIN-2018C27

A.MERLIN MARIA PRAVEENA-2018C28

V.POOJA-2018C29

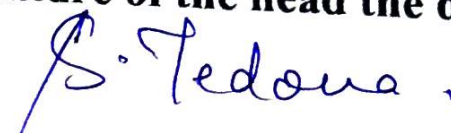
I certify that the declaration made by the candidates are true.



Signature of the internal guide

Dr.Mrs.B. Suganthana
Assistant Professor
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Fatima college,
Madurai – 625018.

Signature of the head the department



Dr. Mrs. B. Medona
Head and Associate Professor,
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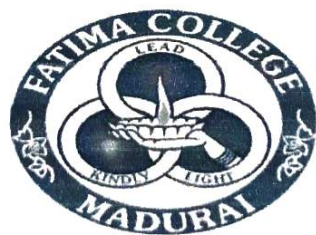
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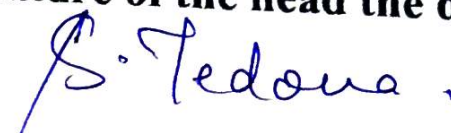
V.POOJA-2018C29

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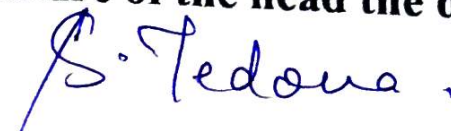
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HOMEOPATHY MEDICINES FOR COVID-19

A Dissertation submitted to Fatima College (Autonomous) Affiliated to
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BACHELOR OF SCIENCE IN CHEMISTRY

Ms. M.SUBASHINI

(Reg. No. 2018C43)

Ms. J.MARIYA JOSE PRINCIYA

(Reg. No. 2018C26)

Ms. K.R.RAJA DHIVYA

(Reg. No. 2018C30)

Ms. S.SWETHA

(Reg. No. 2018C36)

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74th Rank in India Ranking 2020(NIRF) by MHRD
Mary Land, Madurai – 625018

BONOFIDE CERTIFICATE

This is to certify that **M.Subashini (2018C43)** , **J.Mariya Jose Princiya (2018C26)** , **K.R.Raja Dhivya (2018C30)** ,and **S.Swetha (2018C36)** B.Sc.,(Chemistry) students of Fatima college , Madurai have done the project work entitled "**HOMEOPATHY MEDICINES FOR COVID 19**" during the VI semester of the academic year 2020-2021 at Fatima College , Madurai - 625018, under our guidance. This is to certify that no part of the work have been presented for any degree /diploma or in any other.


Signature of the Internal Guide

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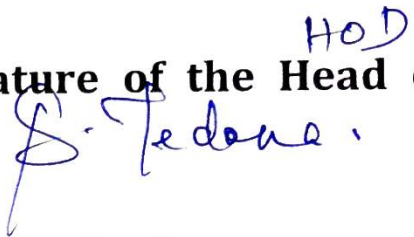
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M. SUBASHINI

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J. MARIYA JOSE PRINCIYA

K. R. Rajadhivya

K. R. RAJA DHIVYA

S. Swetha

S. SWETHA

SANITIZERS- PREPARATIONS, ADVANTAGES AND DISADVANTAGES

A PROJECT REPORT

Submitted by

YOHAEWARI J 2018C40

REGINA THERASA S 2018C31

SOWMIYA S 2018C33

SRIHARSHINI M 2018C34

in partial fulfillment for the award of the degree

of

Bachelor of science

IN

CHEMISTRY



**DEPARTMENT OF CHEMISTRY
FATIMA COLLEGE(AUTONOMOUS)
COLLEGE WITH POTENTIAL FOR EXCELLENCE
RE-ACCREDITED WITH “A” GRADE BY NAAC 3RD CYCLE
74TH RANK IN INDIA RANKING(NIRF) BY MHRD
AFFILIATED TO MADURAI KAMARAJ UNIVERSITY
MARYLAND, MADURAI-18.**

CERTIFICATE

This is to certify that the project report entitled "Sanitizers-Preparations, Advantages and Disadvantages" is a bonafide record of work done by

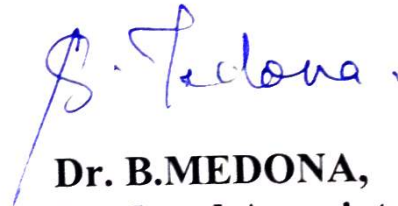
Yohaeswari J	J. Yohaeswari
<u>Regina Therasa S</u>	S. Regina Therasa
Sowmiya S	S. Sowmiya
and Sriharshini M	M. Sriharshini

who carried out the project work during the sixth semester of the academic year 2020-2021 under our guidance.



Dr. R. SARIKA RAJ,
Assistant Professor,
Fatima College,
Madurai.

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Dr. B. MEDONA,
Head and Associate Professor, of Chem
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Head of the Department

VACCINES USED FOR COVID 19 IN OTHER COUNTRIES

A PROJECT REPORT SUBMITTED BY

Ms. Sheeba .K (2018C32)

Ms. Jasmine Jenobha .D (2018C15)

Ms. Jayasudha .J (2018C16)

Ms. Jenifer .T (2018C17)

In partial fulfillment of the requirement for the award of the degree

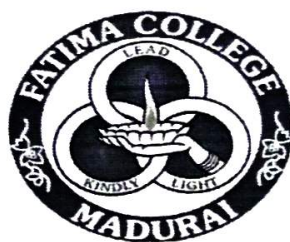
BACHELOR OF SCIENCE

IN

CHEMISTRY

UNDER THE GUIDANCE OF

DR. M. PRIYA DHARSANI



FATIMA COLLEGE (AUTONOMOUS)

Re-Accredited with "A" Grade by NAAC (3rd cycle)

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74th Rank in India Ranking 2020(NIRF) by MHRD

Mary land, Madurai

April -2021

BONEFIDE CERTIFICATE

This is to certify that the project entitled “**Vaccines used for Covid 19 in Other Countries**” is a bonafide record of work done by Sheeba.K. Jasmine Jenobha.D, Jayasudha.J, Jenifer.T during the VI semester of the academic year 2020-2021 under our guidance.

This is to certify that no part of work have been presented for any degree diploma or in any other.

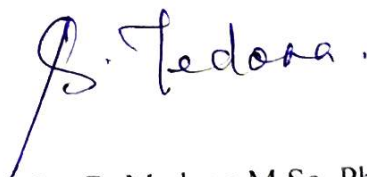
Signature of Internal
Guide



Dr. M. Priyadharsani, M.Sc., M.Phil., SET., Ph.D

Assistant professor
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Department

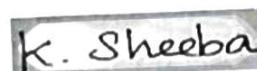


Dr. B. Medona M.Sc., Ph.D


Head and Associate Professor
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DECLARATION

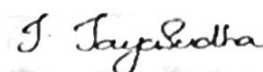
We do here by declare that this dissertation entitle "VACCINES USED FOR COVID-19 IN OTHER COUNTRIES" submitted to Madurai Kamaraj University in partial fulfillment of the requirement for the award of **BACHELOR OF SCIENCE IN CHEMISTRY**, is a record of original search work done by us. We also declare that this dissertation or part of work has not been published earlier elsewhere in any manner.



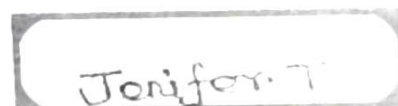
K.Sheeba



D.Jasmine jenobha



J.Jayasudha



T.Jenifer

SANITIZERS- PREPARATIONS, ADVANTAGES AND DISADVANTAGES

A PROJECT REPORT

Submitted by

YOHAEWARI J 2018C40
REGINA THERASA S 2018C31
SOWMIYA S 2018C33
SRIHARSHINI M 2018C34

in partial fulfillment for the award of the degree

of

Bachelor of science

IN

CHEMISTRY



DEPARTMENT OF CHEMISTRY
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CERTIFICATE

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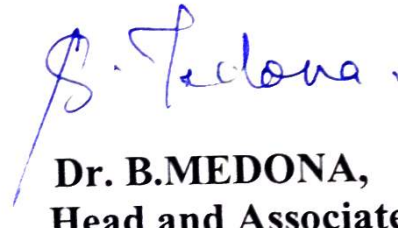
Yohaeswari J	J. Yohaeswari
Regina Therasa S	S. Regina Therasa
<u>Sowmiya S</u>	S. Sowmiya
and Sriharshini M	M. Sriharshini

who carried out the project work during the sixth semester of the academic year 2020-2021 under our guidance.



Dr. R. SARIKA RAJ,
Assistant Professor,
Fatima College,
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Guide



Dr. B. MEDONA,
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Head of the Department

SANITIZERS- PREPARATIONS, ADVANTAGES AND DISADVANTAGES

A PROJECT REPORT

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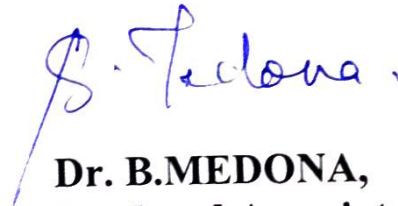
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CLINICAL TRIALS OF COVAXIN IN INDIA

A PROJECT REPORT SUBMITTED BY

Ms J.JESLIN SNEHA (Register No:2018C18)

Ms R.KARTHIGA SELVI (Register No:2018C19)

Ms K.KEERTHIKA (Register No:2018C21)

Ms V.SUBASHINI (Register No:2018C35)

In partial fulfillment of the requirement for the

award of the degree

BACHELOR OF SCIENCE

IN

CHEMISTRY

UNDER THE GUIDANCE OF

Dr. B.VINOSHA



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College with Potential for Excellence (2004-2019)

74th Rank in India Ranking 2020 (NIRF) by MHRD

Re-Accredited with 'A' Grade by NAAC (3rd Cycle)

APRIL 2021

BONAFIDE CERTIFICATE

This is to certify that **J.Jeslin Sneha, R.Karthiga selvi , K.Keerthika** and **V.Subashini** B.Sc., (Chemistry) students of Fatima College, Madurai have done the project work entitled "**CLINICAL TRIALS COVXINE IN INDIA**" during the period of 2021 at Fatima College, Madurai-625018 , under my guidance.

This is to certify that no part of the work have been presented for any degree / diploma or in any other.



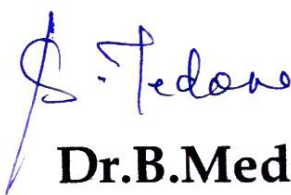
Dr .B. Vinosha

Internal Guide

Assistant Professor

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Dr.B.Medona

Head of the Department

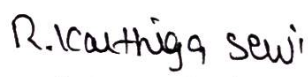
Fatima College

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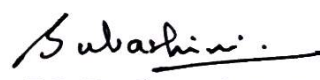
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J. Jeslin Sneha


R. Karthiga Selvi


K. Keerthika


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(Reg. No. 2018C36)

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Signature of the Internal Guide

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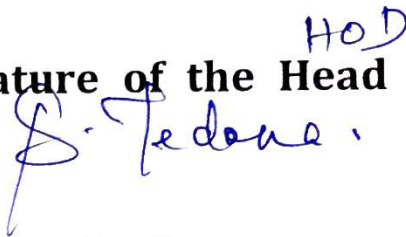
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J. Mariya Jose Princiya

J. MARIYA JOSE PRINCIYA

K. R. Rajadhivya

K. R. RAJA DHIVYA

S. Swetha

S. SWETHA

HERBAL MEDICINE FOR COVID – 19

A PROJECT REPORT SUBMITTED BY

Ms. SWETHA.T (2018C37)

Ms. KEERTHIKA.K (2018C22)

Ms. MAGIMAGRACE.V (2018C24)

Ms. MANSOORUL SAJITHA THASLEEM.M (2018C25)

In partial fulfilment of the requirement for the award of the degree

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IN

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UNDER THE GUIDANCE OF

Dr. V. ARUL DEEPA



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Mary Land, Madurai – 625018, Tamil Nadu.

CERTIFICATE

This is to certify that the project entitled "**Herbal Medicines for COVID -19**" is a bonafide record of work done by **Swetha.T, Keerthika.K, Magimagrace.V, MansoorulSajithaThasleem.M B.sc (chemistry)** students of Fatima college, Madurai during the VI semester of the academic year 2020-2021 under our guidance.

Internal Guide



Dr. V. ARUL DEEPA

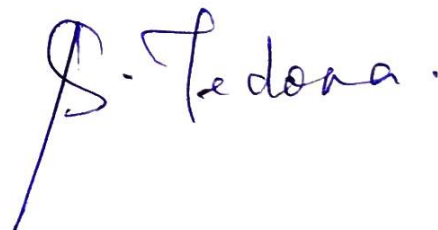
Assistant Professor,

Department of Chemistry,

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Madurai – 625018.

Head of the Department



Dr. B. MEDONA

Head and Associate professor

Department of Chemistry,

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SWETHA.T

T. Swetha

KEERTHIKA.K

K. Keerthika

MAGIMAGRACE.V

v. Magimagrace

MANSOORUL SAJITHA THASLEEM.M

M. Mansoorul Sajitha Thasleem

STRUCTURE AND REACTIVITY OF COVID-19 VIRUS

A PROJECT REPORT

Submitted by

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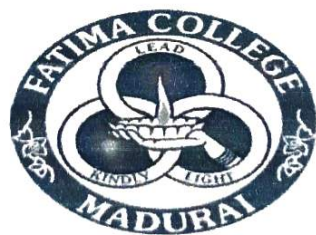
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Signature of the candidates

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S.MARY JERAFIN-2018C27

A.MERLIN MARIA PRAVEENA-2018C28

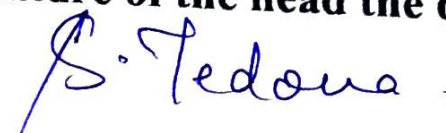
V.POOJA-2018C29

I certify that the declaration made by the candidates are true.


Signature of the internal guide

Dr.Mrs.B. Suganthana
Assistant Professor
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Fatima college,
Madurai – 625018.

Signature of the head the department


Dr. Mrs. B. Medona
Head and Associate Professor,
Department of Chemistry,
Fatima college,
Madurai – 625018.

SUPRAMOLECULAR CHEMISTRY APPROACH TO COMBAT COVID-19

A project report submitted

by

YOGALAKSHMI. C (Register No. 2018C39)

DHARSHANA. R (Register No. 2018C41)

INFANTAJENIFER. A (Register No. 2018C42)

YOGAPRIYA. T (Register No. 2018C44)

in partial fulfillment of the requirement for the degree of

Bachelor of Science

in

CHEMISTRY

Under the guidance of

Dr. S.Sukumari, M.Sc.,M.Phil., B.Ed., Ph.D., NET
Assistant Professor, Department of Chemistry



Fatima college, (Autonomous)

Re-Accredited with 'A' Grade by NAAC (3rd Cycle)

College with Potential for Excellence (2004-2019)

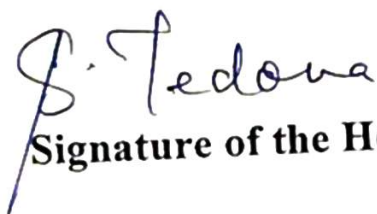
74th Rank in India Ranking 2020 (NIRF) by MHRD

Mary Land, Madurai-625018, Tamil Nadu.

APRIL 2021

CERTIFICATE

This is to certify that the project entitled “Supramolecular chemistry approach to Combat Covid-19” is a bonafide record work done by **C.YOGALAKSHMI (2018C39), R.DHARSHANA (2018C41), A.INFANTAJENIFER (2018C42), T.YOGAPRIYA (2018C44)** during the VI semester of the academic year 2018-2021 under my guidance.



Signature of the Head of the Department

Dr. B. MEDONA,
Head & Associate professor
Department of Chemistry
Fatima College, Madurai.



Signature of the Guide

Dr. S. SUKUMARI,
Assistant Professor
Department of Chemistry
Fatima College, Madurai.

DECLARATION

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Dr.S.Sukumari, M.Sc., B.Ed., M.Phil., Ph.D., NET, Assistant Professor, Department of chemistry, Fatima college (Autonomous) Madurai-18 and this work has not been submitted elsewhere for any other degree.

Place: Madurai

Date: 29/03/2021

C. Yogalakshmi
C. Yogalakshmi

R. Dharshana
R. Dharshana

A. Infantajenifer
A. Infantajenifer

T. Yogapriya
T. Yogapriya

SANITIZERS- PREPARATIONS, ADVANTAGES AND DISADVANTAGES

A PROJECT REPORT

Submitted by

YOHAEWARI J 2018C40

REGINA THERASA S 2018C31

SOWMIYA S 2018C33

SRIHARSHINI M 2018C34

in partial fulfillment for the award of the degree

of

Bachelor of science

IN

CHEMISTRY



**DEPARTMENT OF CHEMISTRY
FATIMA COLLEGE(AUTONOMOUS)
COLLEGE WITH POTENTIAL FOR EXCELLENCE
RE-ACCREDITED WITH "A" GRADE BY NAAC 3RD CYCLE
74TH RANK IN INDIA RANKING(NIRF) BY MHRD
AFFILIATED TO MADURAI KAMARAJ UNIVERSITY
MARYLAND, MADURAI-18.**

CERTIFICATE

This is to certify that the project report entitled "Sanitizers-Preparations, Advantages and Disadvantages" is a bonafide record of work done by

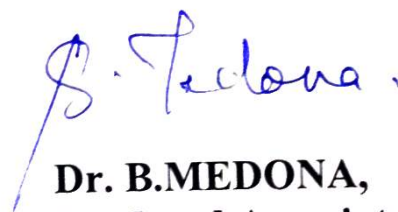
Yohaeswari J	<i>J. Yohaeswari</i>
Regina Therasa S	<i>S. Regina Therasa</i>
Sowmiya S	<i>S. Sowmiya</i>
and Sriharshini M	<i>M. Sriharshini</i>

who carried out the project work during the sixth semester of the academic year 2020-2021 under our guidance.



Dr. R. SARIKA RAJ,
Assistant Professor,
Fatima College,
Madurai.

Guide



Dr. B. MEDONA,
Head and Associate Professor, of Chem
Fatima College,
Madurai.

Head of the Department

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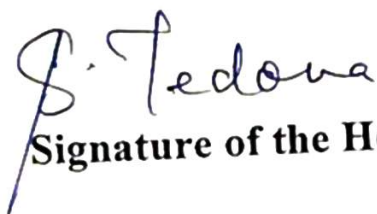
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Signature of the Head of the Department

Dr. B. MEDONA,
Head & Associate professor
Department of Chemistry
Fatima College, Madurai.



Signature of the Guide

Dr. S. SUKUMARI,
Assistant Professor
Department of Chemistry
Fatima College, Madurai.

DECLARATION

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Dr.S.Sukumari, M.Sc., B.Ed., M.Phil., Ph.D., NET, Assistant Professor, Department of chemistry, Fatima college (Autonomous) Madurai-18 and this work has not been submitted elsewhere for any other degree.

Place: Madurai

Date: 29/03/2021

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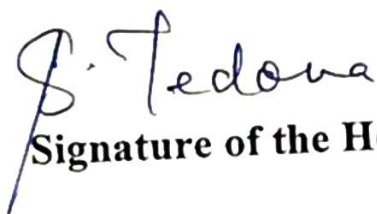
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Signature of the Head of the Department

Dr. B. MEDONA,
Head & Associate professor
Department of Chemistry
Fatima College, Madurai.



Signature of the Guide

Dr. S. SUKUMARI,
Assistant Professor
Department of Chemistry
Fatima College, Madurai.

DECLARATION

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Dr.S.Sukumari, M.Sc., B.Ed., M.Phil., Ph.D., NET, Assistant Professor, Department of chemistry, Fatima college (Autonomous) Madurai-18 and this work has not been submitted elsewhere for any other degree.

Place: Madurai

Date: 29/03/2021

C. Yogalakshmi
C. Yogalakshmi

R. Dharshana
R. Dharshana

A. Infantajenifer
A. Infantajenifer

T. Yogapriya
T. Yogapriya

HOMEOPATHY MEDICINES FOR COVID-19

A Dissertation submitted to Fatima College (Autonomous) Affiliated to
Madurai kamaraj University in partial fulfillment of the requirements for the
award of the degree of

BACHELOR OF SCIENCE IN CHEMISTRY

Ms. M.SUBASHINI
(Reg. No. 2018C43)

Ms. J.MARIYA JOSE PRINCIYA
(Reg. No. 2018C26)

Ms. K.R.RAJA DHIVYA
(Reg. No. 2018C30)

Ms. S.SWETHA
(Reg. No. 2018C36)

UNDER THE GUIDENCE OF
Dr. K.R.SUBIMOL




FATIMA COLLEGE (AUTONOMOUS)

Re – Accredited with 'A' Grade by NAAC (3rd cycle)
College with potential for Excellence (2004-2019)
74th Rank in India Ranking 2020(NIRF) by MHRD
Mary Land, Madurai – 625018

BONOFIDE CERTIFICATE

This is to certify that **M.Subashini (2018C43)**, **J.Mariya Jose Princiya (2018C26)**, **K.R.Raja Dhivya (2018C30)**, and **S.Swetha (2018C36)** B.Sc.,(Chemistry) students of Fatima college, Madurai have done the project work entitled "**HOMEOPATHY MEDICINES FOR COVID 19**" during the VI semester of the academic year 2020-2021 at Fatima College, Madurai - 625018, under our guidance. This is to certify that no part of the work have been presented for any degree /diploma or in any other.


Signature of the Internal Guide

Department

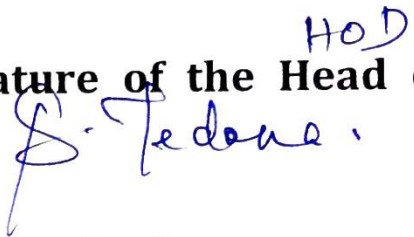
Dr. K.R.Subimol

Assistant Professor

Department of Chemistry

Fatima College

Madurai - 625018.


Signature of the Head of

Dr. B. Medona

Head and Associate Professor

Department of Chemistry

Fatima College

Madurai - 625018.

DECLARATION

We do hereby declare that this dissertation entitled "**HOMEOPATHY MEDICINES FOR COVID-19**" submitted to Madurai Kamaraj University in partial fulfillment of requirement for the award of **BACHELOR OF SCIENCE IN CHEMISTRY** is a record of original research work done by us. We also declare that this dissertation or part of work has not been published earlier elsewhere in any manner.

M. Subashini

M. SUBASHINI

J. Mariya Jose Princiya

J. MARIYA JOSE PRINCIYA

K. R. Rajadhivya

K. R. RAJA DHIVYA

S. Swetha

S. SWETHA

SUPRAMOLECULAR CHEMISTRY APPROACH TO COMBAT COVID-19

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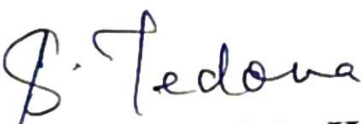
Dr. S.Sukumari, M.Sc., M.Phil., B.Ed., Ph.D., NET
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Signature of the Head of the Department

Dr. B. MEDONA,
Head & Associate professor
Department of Chemistry
Fatima College, Madurai.



Signature of the Guide

Dr. S. SUKUMARI,
Assistant Professor
Department of Chemistry
Fatima College, Madurai.

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We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Dr.S.Sukumari, M.Sc., B.Ed., M.Phil., Ph.D., NET, Assistant Professor, Department of chemistry, Fatima college (Autonomous) Madurai-18 and this work has not been submitted elsewhere for any other degree.

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