

A SURVEY ON COMMON MENSTRUAL DISORDERS

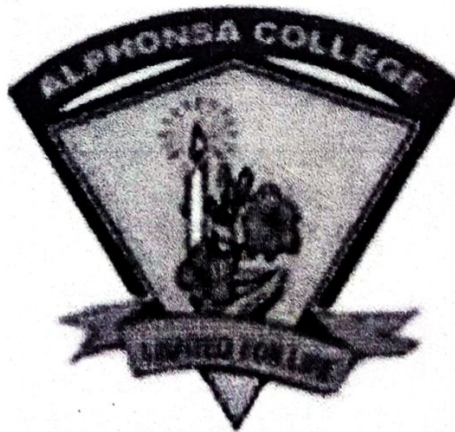
Dissertation submitted to Mahatma Gandhi University in partial fulfillment of the requirement for the award of degree of

BACHELOR OF SCIENCE IN ZOOLOGY

By

AJEENA ELSITTA JOSEPH
REG NO. 190021043564

Under the guidance of
Ms. CINNIE SUSAN ANTONY



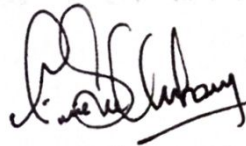
DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE PALA - 686574
MAY 2022

CERTIFICATE


This is to certify that this project entitled "A survey on common menstrual disorders" is a bonafide work carried out by Ajeena Elsitta Joseph, Reg No: 190021043564 under my guidance in the Department of Zoology, Alphonsa College, Pala during the academic year 2020-2022.

Place :-Pala.

Date :-19-5-2022.



Ms. Cinnie Susan
Supervising teacher
Dept. of Zoology
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Counter signed by,
Dr. Sr. Manju Elizabeth Kuruvila
HOD, Dept. of Zoology
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**A STUDY ON ANT BIODIVERSITY IN WARD
NO:10 OF KADANAD GRAMPANCHAYATH**

Dissertation submitted to Mahatma Gandhi University In
partial fulfilment of the requirement for the Degree of
Bachelor of Science in Zoology

By

ANAKHA VIJAYAN
Reg. No. 190021043565

Under the supervision of
Dr. Maya George



Department of Zoology
Alphonsa College

Pala

2019 - 2022

DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE, PALA
Affiliated to Mahatma Gandhi University

CERTIFICATE

This is to certify that the dissertation entitled "STUDY ON ANT BIODIVERSITY IN WARD NO:10 OF KADANAD GRAMA PANCHAYATH" is a bonafide work carried out by **Miss Anakha Vijayan**, of the Department of Zoology, Alphonsa College, Pala, in partial fulfilment of the requirement for the award of B.Sc. Programme in Zoology of M.G. University during the period 2019-2022 under my supervision and guidance.

Place: Pala

Date : 16-05-2022

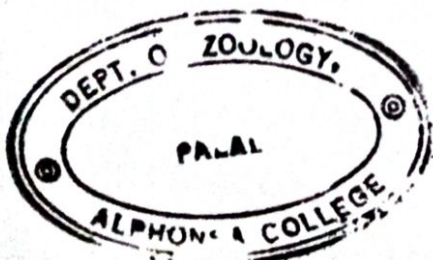
Maya George
16-5-2022
Dr. Maya George

Department of Zoology
Alphonsa College, Pala

Counter Signed by,

Manju
16/5/2022

Dr. Sr. Manju Elizabeth Kuruvila
Head of the Department,
Alphonsa College, Pala



CERTIFIED COPY

**A STUDY ON SHOULDER INJURY AMONG ATHLETES
AND NONATHLETES WITH SPECIAL PREFERENCE TO
SLAP TEAR IN PALA MUNICIPALITY**

*Dissertation submitted to the Mahatma Gandhi University in partial
fulfillment of the requirements for the award of the degree*

Of

BACHELOR OF SCIENCE IN ZOOLOGY

By

ANCY SARA SAJAN

REG.NO:190021043566

Under the Guidance of

Dr. AMBILI T.R



**DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE, PALA-686574**

APRIL - 2022

CERTIFICATE

This is to certify that the dissertation entitled 'A STUDY ON SHOULDER INJURY AMONG ATHLETES AND NON ATHLETES WITH SPECIAL PREFERANCE TO SLAP TEAR ON 2022 IN PALA MUNICIPALITY ' is a bonafide work carried out by **Ancy Sara Sajan** of the Department of Zoology, Alphonsa College Pala, in a partial fulfillment of the requirement for the award of B.Sc Programme in Zoology of M.G University during the period 2019-2022 under my supervision and guidance. This work has not been. Presented earlier for the award of any other degree.



Dr. AMBILI T.R

Department of Zoology

Alphonsa College, Pala.



Counder signed by

Dr.Sr. Manju Elizabeth Kuruvila

Head of the Department

Alphonsa College , Pala

Place : Pala

Date : 19. 05. 2022

**DIVERSITY OF DRAGONFLIES AND DAMSELFLIES IN
WARD II OF THIDANADU PANCHAYATH, KOTTAYAM**

**Dissertation submitted to the Mahatma Gandhi University in partial fulfilment of
the requirements for the degree of**

BACHELOR OF SCIENCE IN ZOOLOGY

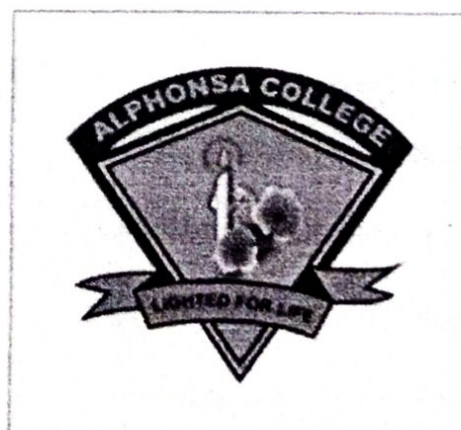
By

ANILAMOL T. S

Reg. No: 190021043567

Under the guidance of

MS. TEENA JAMES



DEPARTMENT OF ZOOLOGY

ALPHONSA COLLEGE

PALA 2021

CERTIFICATE

This is to certify that the dissertation work entitled "**DIVERSITY OF DRAGONFLIES AND DAMSELFLIES IN WARD II OF THIDANADU PANCHAYATH, KOTTAYAM**" is a bonafide work carried out by Miss. Anilamol T. S, of the Department of zoology, Alphonsa College, Pala, in partial fulfilment of the requirement for the award of B. Sc. Programme in Zoology of M. G. University during the period 2019 – 2022.

Place : Pala

Supervising Teacher



Date :

Ms. Teena James

Department of Zoology

Alphonsa College, Pala

Counter Signed by,



Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department

Department of Zoology

Alphonsa College, Pala

GESTATIONAL DIABETES DURING PREGNANCY

Dissertation submitted to the Mahatma Gandhi University in partial fulfilment of the requirements for the award of degree of

BACHELOR OF SCIENCE IN ZOOLOGY

By

ANJALI SHAJI

REG. NO : 190021043568

Under the guidance of

MISS POORNIMA BABY



DEPARTMENT OF ZOOLOGY

ALPHONSA COLLEGE, PALA

2022

CERTIFICATE

This is to certify that the dissertation entitled "GESTATIONAL DIABETES DURING PREGNANCY" is a bonafide work carried out by Ms. Anjali Shaji, under my guidance, in the Department of Zoology, Alphonsa College, Pala during a course as partial fulfilment of the requirements for the award of BSc. Programme in Zoology at MG University during the period 2019-2022.



Miss Poornima Baby

Supervising Teacher

Department of Zoology

Alphonsa College, Pala

PLACE : PALA

DATE : 19/05/2022



Countersigned by,

Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department of Zoology

Alphonsa College, Pala

FORELIMBS AND HINDLIMBS OF
VERTEBRATES AND INVERTEBRATES

Dissertation submitted to the Mahatma Gandhi University in partial fulfilment of the

Requirement for the award of degree of

BACHELOR OF SCIENCE IN ZOOLOGY

By

Anly Tomy

Reg nb :190021043569

under the guidance of

Dr.sr.Manju Elizabeth Kuruvila

CERTIFICATE

This is to certify that the dissertation work entitled forelimbs and hindlimbs of vertebrates and invertebrates is bonafide work carried out by Miss. Anly Tomy of the department of zoology Alphonsa college pala in partial fulfilment of the requirement for the award of B. Sc programme in Zoology of M. G University during the period 2019-2022

Place :

Date:

Supervising Teacher




Dr. Sr Manju Elizabeth Kuruvila

Head of the department of zoology

Alphonsa college pala

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Head of the department of zoology
Alphonsa college pala

SPIDER DIVERSITY OF ALPHONSA COLLEGE CAMPUS, PALA.

*Dissertation submitted to the MG University of Kottayam to partial fulfillment
of the requirements for the award of the degree of*

BACHELOR OF SCIENCE IN ZOOLOGY

APARNA SHAJI
(Reg No: 190021043571)

Under the Guidance of
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**DEPARTMENT OF ZOOLOGY, ALPHONSA
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MAY - 2022**

**DIVERSITY OF BUTTERFLIES IN
WARD 11 OF KAROOR PANCHAYATH, PALA**

**Dissertation submitted to the Mahatma Gandhi University in partial fulfilment of
the requirements for the degree of**

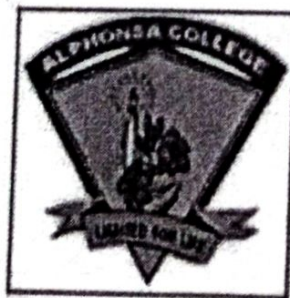
BACHELOR OF SCIENCE IN ZOOLOGY

By

ATHIRA MADHU

Reg. No: 180021043573

**Under the guidance of
MS. Dr. AMBILY T. R.**



DEPARTMENT OF ZOOLOGY

ALPHONSA COLLEGE

PALA 2022

CERTIFICATE

This is to certify that the dissertation work entitled “**DIVERSITY OF BUTTERFLIES IN WARD 11 OF KAROOR PANCHAYATH, PALA**” is a bonafide work carried out by **Miss. Athira Madhu**, of the Department of Zoology, Alphonsa College, Pala, in partial fulfilment of the requirement for the award of B.Sc. Programme in Zoology of M. G. University during the period 2019-2022.

Place: Pala

Supervising Teacher



Ms. Dr. Ambily T. R.

Date:

Department of Zoology

Alphonsa College, Pala

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Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department

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Alphonsa College, Pala

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(Affiliated to Mahatma Gandhi University,
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Department of Zoology
B. Sc Zoology

BIRD DIVERSITY

PROJECT REPORT 2019-2022

Submitted by,

Name : ATHIRA. B

Course: B. Sc Zoology

M.G University Reg No:190021043574

CERTIFICATE

This is to certify that the project entitled “ **A PRILIMINARY STUDY ON THE DIVERSITY OF BIRDS IN THE CAMPUS OF ALPHONSA COLLEGE PALA**” is a bona fide record of the work done by **Athira.B (190021043574)** , under my guidance, in the partial fulfilment of the requirement for the award of the Degree of Bachelor of Science in Zoology, during the academic year 2019-202

Internal Guide:



Ms. Teena James

Department of zoology

DIVERSITY OF ANTS IN WARD 9 OF KANAKKARY PANCHAYAT, KOTTAYAM

Dissertation submitted to the Mahatma Gandhi University in partial fulfilment
of the requirement for the award of degree of

BACHELOR OF SCIENCE IN ZOOLOGY



**BY
BIDHYA SEBASTIAN**

REG NO: 190021043575

Under the guidance of

Ms. POORNIMA BABY

**DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE PALA
APRIL 2022**

CERTIFICATE

This is to certify that the dissertation work entitled " DIVERSITY OF ANTS IN WARD 9 OF KANAKKARY PANCHAYATH KOTTAYAM " is a bonafide work carried out by miss. Bidhya Sebastian of the Department of zoology, Alphonsa college pala, in partial fulfillment of the requirement of the award of B.sc programme in zoology of M.G University during the period 2019-2022

Place:Pala

Date :

Supervising Teacher



**Ms.Poornima Baby
Department of zoology
Alphonsa college pala**

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**Dr.sr.Manju Elizabeth Kuruvila
Head of the Department
Department of Zoology Alphonsa college**

DIVERSITY OF FROG IN PALA MUNICIPALITY: RURAL AND URBAN AREA

Dissertation submitted to
MAHATMA GANDHI UNIVERSITY
In partial fulfilment of the requirement award for the award of
DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY

SUBMITTED BY

JOICY ANTONY

REG. NO: 190021043580

Under the Guidance of

DR AMBILI BINU



**DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE, PALA-686574**

KOTTAYAM, KERALA

MAY 2022

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ALPHONSA COLLEGE, PALA

CERTIFICATE

This is to certify that the project report entitled "DIVERSITY OF FROG IN PALA MUNICIPALITY: RURAL AND URBAN AREA" is a bonafide project work carried out by Ms. Joicy Antony, under my guidance, in the Department of Zoology, Alphonsa college, Pala, during the course as partial fulfilment of requirements for the degree of Bachelor of Science of Mahatma Gandhi university, Kottayam.




Ms. Ambili Binu

Supervising Teacher

PLACE: PALA

DATE: 19-05-2022

Counter signed by



Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department,

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Alphonsa College, Pala

ADAPTABILITY OF COCKROACHES TO DRASTIC ENVIRONMENTAL CHANGES

Dissertation submitted to
MAHATMA GANDHI UNIVERSITY

In partial fulfilment of the requirement award for the award of degree of
BACHELOR OF SCIENCE IN ZOOLOGY



SUBMITTED BY

MANYA MANOJ
REG. NO: 190021043582

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DEPARTMENT OF ZOOLOGY
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KOTTAYAM, KERALA

MAY 2022

DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE, PALA

CERTIFICATE

This is to certify that the project report entitled “**ADAPTABILITY OF COCKROACHES TO DRASTIC ENVIRONMENTAL CHANGES**” is a bonafide project work carried out by Ms. Manya Manoj, under my guidance, in the Department of Zoology, Alphonsa college, Pala, during the course as partial fulfilment of requirements for the degree of Bachelor of Science of Mahatma Gandhi university, Kottayam.



Ms. Poornima Baby
Supervising Teacher
Department of Zoology
Alphonsa College, Pala

Place: PALA

Date: 19-05-2022



Counter signed by,
Dr. Sr. Manju Elizabeth Kuruvila
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**MANAGEMENT COMPETENCE IN HOUSEHOLD GOAT FARMING IN
WARD 5 IN KAROOR GRAMA PANCHAYAT AND WARD 8 IN
RAMAPURAM GRAMA PANCHAYAT**

**Dissertation submitted to the Mahatma Gandhi University in partial
fulfillment of the requirement for the award of degree of**

BACHELOR OF SCIENCE IN ZOOLOGY

By

NOVA CIBY

REG NO: 190021043586

Under the guidance of

Ms. CINNIE SUSAN ANTONY



DEPARTMENT OF ZOOLOGY

ALPHONSA COLLEGE, PALA- 686574

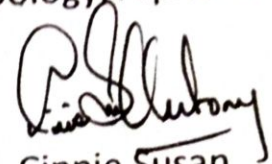
APRIL 2022

CERTIFICATE

This is to certify that this project entitled "**MANAGEMENT COMPETENCE IN HOUSEHOLD GOAT FARMING**" is a bonafide work carried out by Nova Ciby, Reg No: 190021043586 under my guidance in the Department of Zoology, Alphonsa College, Pala during the academic year 2020- 2022.

Place:- Pala

Date:- 19/05/2022



Ms. Cinnie Susan

Supervising teacher

Dept. of Zoology

Alphonsa College, Pala



Counter signed by,

Dr. Sr. Manju Elizabeth Kuruvilla

HOD, Dept. of Zoology

Alphonsa College Pala

POULTRY FARMING

Dissertation submitted to

MAHATMA GANDHI UNIVERSITY

In partial fulfilment of the requirement award for the award of

DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY

SUBMITTED BY

RIYA ANNA SAJEEV

190021043587

Under the Guidance of

DR. MAYA GEORGE



DEPARTMENT OF ZOOLOGY

ALPHONSA COLLEGE, PALA-686574

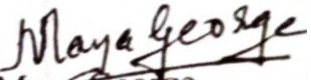
KOTTAYAM, KERALA

MAY 2022

DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE, PALA

CERTIFICATE

This is to certify that the project report entitled "POULTRY FARMING" is a bonafide project work carried out by, RIYA ANNA SAJEEV under my guidance, in the Department of Zoology, Alphonsa college, Pala, during the course as partial fulfilment of requirements for the degree of Bachelor of Science of Mahatma Gandhi university, Kottayam.


Dr. Maya George

Supervising Teacher
Department of Zoology
Alphonsa College, Pala

Place: PALA

Date: 19-05-2022



Counter signed by,

Dr. Sr. Manju Elizabeth Kuruvila
Head of the Department of Zoology,
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PHYSICO-CHEMICAL ANALYSIS OF WATER QUALITY IN MEENACHIL RIVER NEAR INDIAR FACTORY

Dissertation submitted to

MAHATMA GANDHI UNIVERSITY

In partial fulfilment of the requirement award for the award of
DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY

SUBMITTED BY

AISWARIYA SURENDRAN

REG. NO: 190021043563

Under the Guidance of

DR SIMIMOL SEBASTIAN



**DEPARTMENT OF ZOOLOGY
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KOTTAYAM, KERALA**

APRIL 2022

DEPARTMENT OF ZOOLOGY

ALPHONSA COLLEGE, PALA

CERTIFICATE

This is to certify that the project report entitled "**PHYSICO CHEMICAL ANALYSIS OF WATER QUALITY IN MEENACHIL RIVER NEAR INDIAR FACTORY**" is a bonafide project work carried out by Ms.AiswariyaSurendran, under my guidance, in the Department of Zoology, Alphonsa college, Pala, during the course as partial fulfilment of requirements for the degree of Bachelor of Science of Mahatma Gandhi university, Kottayam.



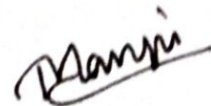
Dr Simimol Sebastian

Supervising Teacher

PLACE: PALA

DATE:

Counter signed by



Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department,

Department of Zoology

Alphonsa College, Pala

ALPHONSA COLLEGE, PALA
(Affiliated to Mahatma Gandhi University,
Kottayam)



Department of Zoology

B. Sc Zoology

SPIDER DIVERSITY

2019-2022

Submitted by,

Name : SNEHA PRAKASH

Course: B. Sc Zoology

M.G University Reg No:190021043589

CERTIFICATE

This is to certify that the project entitled “ **A PRELIMINARY STUDY ON THE DIVERSITY OF SPIDERS IN THE COLLEGE CAMPUS**” is a bona fide record of the work done by **Sneha Prakash (190021043589)** , under my guidance, in the partial fulfilment of the requirement for the award of the Degree of Bachelor of Science in Zoology, during the academic year 2019-202

Guide:



Teena James

Assistant Professor

Department of Zoology

A Brief Study on the Effect of Carbonated drinks on Human Teeth

*Thesis is submitted to the Mahatma Gandhi University in partial fulfilment of
the requirement for the award of*

BACHELOR OF SCIENCE IN ZOOLOGY

By

UTHARA C. M

(Reg. No 190021043590)

Under the supervision of

Mrs. Poornima Baby

(Assistant Professor)



**DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE PALA**

MAY-2022

CERTIFICATE

This is to certify that the project report entitled "**A Brief Study On the Effects of Carbonated drinks on Human Teeth**" is a bonafide project work carried out by Ms. Uthara C.M, under my guidance, in the Department of zoology, Alphonsa college, Pala, during the course as partial fulfilment of requirements for the degree of Bachelor of Science of Mahatma Gandhi university, Kottayam.



Mrs. Poornima Baby

Supervising Teacher

PLACE: Pala

DATE: 19-05-2022



Counter signed by

Dr.Sr.Manju Elizabeth Kuruvila

Head of the Department,

Department of Zoology

Alphonsa College, Pala

**DIVERSITY OF DRAGONFLIES AND DAMSELFLIES IN WARD III
THALAYAZHAM PANCHAYATH KOTTAYAM**

**Dissertation submitted to the Mahatma University in partial fulfillment of the requirements for the
degree of**

BACHELOR OF SCIENCE IN ZOOLOGY

By

AKSHAYA PRADEEP

Reg. No: 190021043592

Under the guidance of

MS. SIMIMOL SEBASTIAN



**DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE
PALA 2022**

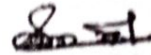
CERTIFICATE

This is to certify that the dissertation work entitled "**DIVERSITY OF DRAGONFLIES AND DAMSELFLIES IN WARD III OF THALAYAZHAM PANCHAYATH, KOTTAYAM**" is a bonafide work carried out by **Miss. Akshaya Pradeep**, of the Department of Zoology, Alphonsa College, Pala, in partial fulfillment of the requirements for the award of B.Sc. Programme in Zoology of M.G University during the period 2019- 2022.

Place : Pala

Date

Supervising Teacher



Simimol Sebastian

Department of zoology

Alphonsa College, Pala

Counter Signed by,



Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department

Department of Zoology

Alphonsa College, Pala

FISH DIVERSITY AT SELECTED SITES IN MEENACHIL RIVER

(Affiliated to Mahatma Gandhi University, Kottayam)

BACHELOR OF SCIENCE IN ZOOLOGY

By

ANGEL THOMAS

REG NO: 190021043593

Under the guidance of

Ms. CINNIE SUSAN ANTONY



**DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE, PALA – 686574**

APRIL 2022

CERTIFICATE

This is to certify that the project work entitled ' **FISH DIVERSITY AT SELECTED SITES IN MEENACHIL RIVER** ' is a bonafide record of the work done by ANGEL THOMAS (190021043593) under my guidance , in the award of the Degree of *Bachelor of Science in Zoology, during the academic year 2019-2022.*



Project guide

Ms. Cinnie Susan Antony

Department of Zoology

Alphonsa College, Pala

PHOTOTACTIC RESPONSE OF NOCTURNAL INSECTS

Dissertation submitted to the Mahatma Gandhi University in partial fulfilment of the
requirement for the award of degree of

BACHELOR OF SCIENCE IN ZOOLOGY

By
ANNS MARY KURIAKOSE

REG NO : 190021043594

Under the guidance of
DR. MAYA GEORGE

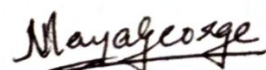


DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE, PALA - 686574

APRIL 2022

CERTIFICATE

This is to certify that the dissertation entitled “**PHOTOTACTIC RESPONSE OF NOCTURNAL INSECTS**” is a bonafide work carried out by Miss. Anns Mary Kuriakose, under my guidance, in the Department of Zoology, Alphonsa College, Pala, during a course as partial fulfilment of the requirements for the award of BSc. programme in Zoology at MG University during the period 2019 - 2022



Dr. Maya George

Supervising Teacher

Assistant Professor

Department Of Zoology

Alphonsa College , Pala

PLACE : PALA

DATE : 19 - 05 - 2022



Countersigned by,

Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department of Zoology

Alphonsa College, Pala

DEFENDING ORGANS AND MECHANISM IN INSECTS

Dissertation submitted to the Mahatma Gandhi University in
partial fulfillment of the requirement for the award of degree of

BACHELOR OF SCIENCE IN ZOOLOGY

By
Arathy Krishnan

REG NO.190021043595

Under the guidance of
DR.AMBILI TR



DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE PALA - 686574
MAY 2022

CERTIFICATE

This is to certify that the project report entitled "**DEFENDING ORGANS AND MECHANISM IN INSECTS**" is a bonafide project work carried out by Ms. Arathy Krishnan, under my guidance, in the department of Zoology, Alphonsa college Pala, during the course as partial fulfillment of requirements for the degree of Bachelor of Science of Mahatma Gandhi University Kottayam.

Dr. Ambili TR



Supervising Teacher

PLACE: PALA

DATE:

CHECKLIST OF BIRDS IN URULIKUNNAM VILLAGE

Dissertation submitted to Mahatma Gandhi University in partial fulfillment of the
requirement for the award of degree of

BACHELOR OF SCIENCE IN ZOOLOGY



BY

NANDANA S KUMAR

REG NO: 190021043598

Under the guidance of

Ms TEENA JAMES

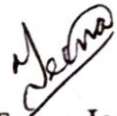
DEPARTMENT OF ZOOLOGY

ALPHONSA COLLEGE PALA

APRIL 2022

CERTIFICATE

This is to certify that the dissertation entitled "CHECKLIST OF BIRDS IN URULIKUNNAM VILLAGE" is a bonafide work carried out by Ms. Nandana S Kumar under my guidance in the Department of Zoology. Alphonsa College, Pala, during a course as partial fulfilment of the requirements for the award of BSc. Programme in Zoology at MG University during the period 2019 2022



Ms. Teena James

Supervising Teacher

Assistant Professor Alphonsa College, Pala

Department Of Zoology

PLACE : PALA

DATE: 19-05-2022

Countersigned by,

Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department of Zoology

Alphonsa College, Pala

STUDY ON BODY MASS INDEX

Dissertation submitted to the Mahatma Gandhi University in partial fulfilment of the

Requirement for the award of degree of

BACHELOR OF SCIENCE IN ZOOLOGY

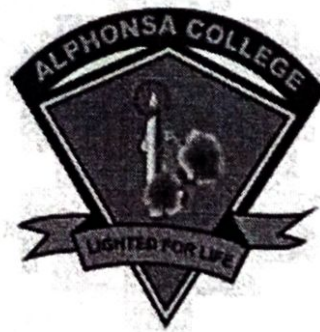
By

NAVYA JAMES

REG.NO: 190021043599

Under the guidance of

MISS POORNIMA BABY



DEPARTMENT OF ZOOLOGY

ALPHONSA COLLEGE, PALA

2022

CERTIFICATE

This is to certify that the dissertation entitled "BODY MASS INDEX" is a bonafide work carried out by Ms. Navya James, under my guidance, in the Department of Zoology, Alphonsa College, Pala during a course as partial fulfilment of the requirements for the award of BSc. Programme in Zoology at MG University during the period 2022.



Miss Poornima Baby

Supervising Teacher

Department of Zoology

Alphonsa College, Pala

PLACE : PALA

DATE : 19/05/2022



Countersigned by,

Dr. Sr. Manju Elizabeth Kuruvila

A STUDY ON THE EFFECT OF SHAMPOOS ON *VIGNA ANGULARIS*

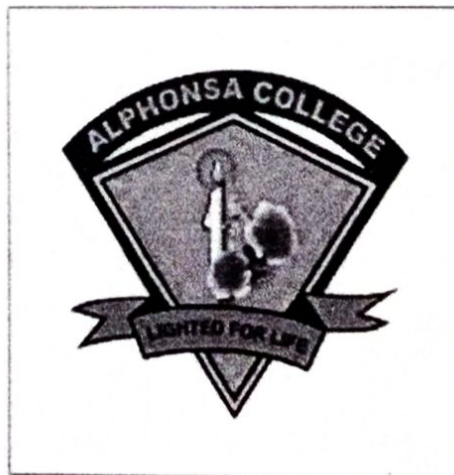
Dissertation submitted to the Mahatma Gandhi University in partial fulfillment of the
requirement for the award of the degree of

BACHELOR OF SCIENCE IN ZOOLOGY

By
SHERIN C BABY

Reg. No: 190021043601

Under the guidance of
Dr. AMBILI T. R



**DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE PALA -686574**

APRIL 2022

CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON THE EFFECT OF SHAMPOOS ON *VIGNA ANGULARIS*" is a bonafide work carried out by Ms. Sherin C Baby, under my guidance, in the Department of Zoology Alphonsa College, Pala, during a course as partial fulfillment of the requirements for the award of BSc. programme in Zoology at MG University during the period 2019- 2022.



Dr. Ambili T. R.
Supervising Teacher
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Place : Pala

Date : 19/05/2022

Countersigned by,



Dr. Sr. Manju Elizabeth Kuruvila
Head of the Department of Zoology
Alphonsa College, Pala

**BUTTERFLY DIVERSITY IN THE CAMPUS OF ALPHONSA COLLEGE ,
PALA**

**Dissertations submitted to Mahatma Gandhi University in partial fulfillment
of the requirement of the Degree of bachelor of science**

By

SOUNDHARYA S A

Reg no: 190021043602

Under the supervision of

Ms. Teena James



VERIFIED SIGNATURE

**DEPARTMENT OF ZOOLOGY
ALPHONSA COLLEGE PALA**

2021-2022

CERTIFICATE

This is to certify that this project entitled "**Butterfly Diversity in the campus of Alphonsa College, Pala**" is a bonafide work carried out by Soundharya S A Reg no: 190021043602 under my guidance in the Department of Zoology, Alphonsa College, Pala during the academic year 2019-2022.

Place: Pala

Date:



Ms. Teena James
supervising teacher
Dept of Zoology
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Counter Signed by,

Dr.Sr.Manju Elizabeth Kuruvila
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Alphonsa College, Pala

AQUACULTURE IN TILAPIA MOSSAMBICA

Dissertation submitted to

MAHATMA GANDHI UNIVERSITY

In partial fulfilment of the requirement award for the award of
DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY

SUBMITTED BY

GREESHMA SONNY

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Under the Guidance of

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KOTTAYAM, KERALA

MAY 2022

DEPARTMENT OF ZOOLOGY

ALPHONSA COLLEGE, PALA

CERTIFICATE

This is to certify that the project report entitled “**AQUACULTURE IN TILAPIA MOSSAMBICA**” is a bonafide project work carried out by, Greeshma Sonny under my guidance, in the Department of Zoology, Alphonsa college, Pala, during the course as partial fulfilment of requirements for the degree of Bachelor of Science of Mahatma Gandhi university, Kottayam.

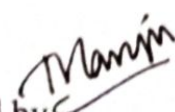


Supervising Teacher

Poornima Baby

Place: PALA

Date: 19-05-2022



Counter signed by

Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department,

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