NATURAL REPELLENTS OF ANT



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
RICHU ELSA MOSAS
(Reg. No. 180021043560)

Under the Supervision and Guidance of

Professor: Dr BIJU JOHN

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



Dr Biju John

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "Natural Repellents of Ant" being submitted by Richu Elsa Mosas to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St. Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 15 - 3 - 20 34

n Diin Iol

Dr Biju John

PRELIMINARY IDENTIFICATION OF MILLIPEDE FAUNA OF SULTHANBATHERY, WAYANAD



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
Ziyana K. S
(Reg. No. 180021043570)

Under the Supervision and Guidance of

Miss: VIDHYA P.V

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



Vidhya P.V

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "Preliminary identification of millipede fauna of SulthanBathery, Wayanad" being submitted by Ziyana K. S to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St.Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place:Manarcadu

Date: 30/3/2021

Smt.Vidhya P.V

A STUDY ON PREVENTIVE HEALTH BEHAVIOUR OF PANDEMIC AND EPIDEMIC DESEASES



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By GOKUL UNNIKRISHNAN Reg. No. 180021043551

Under the Supervision and Guidance of

Miss: VIDHYA P.V

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



Vidhya P.V

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "A study on Preventive health behavior of pandemic and epidemic diseases" being submitted by Gokul Unnikrishnan to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St.Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 30/3/2021

to Smt. Vidhya P.V

A STUDY ON REGENERATION CAPACITY OF AN EARTHWORM-LAMPITO MAURITII



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
KARTHIKA R
(Reg. No. 180021043552)

Under the Supervision and Guidance of

Miss: ANJANA SANTHOSH

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



Anjana Santhosh

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "A study on regeneration capacity of an earthworm-Lampitomauritti" being submitted by Karthika R to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St. Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 1/4/2021

Miss.AnjanaSanthos

EFFECT OF DIFFERENT COMMERCIAL FEEDS ON GROWTH AND REPRODUCTIVE PERFORMANCE OF GUPPY, Poecilia reticulata



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By RIYA CELIN K.J (Reg. No. 180021043561)

Under the Supervision and Guidance of

Miss: VIDHYA P.V

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud

DEPARTMENT OF ZOOLOGY
ST.MARY'S COLLEGE MANARCAUD
(Affiliated to Mahatma Gandhi University)
KOTTAYAM

2018-2021

Vidhya P.V

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "Effect of different commercial feeds on growth and reproductive performance of Guppy ,Poecilia reticulata" being submitted by Riya celin K J to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St.Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 30 3 202

Smt. Vidhya P.V

A STUDY ON FOOD PREFERENCE IN DROSOPHILA MELANOGASTER



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
Roshni Varghese
(Reg. No. 180021043562)

Under the Supervision and Guidance of

Miss: Anjana Santhosh

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



AnjanaSanthosh

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "A Study on food preference in drosophila melanogaster" being submitted by Roshni Varghese to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St. Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 13-07-21

Smt. AnjanaSanthosh

A STUDY ON LIFE CYCLE OF LIME BUTTERFLY



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
SAJIN THOMAS
(Reg. No.180021043563)

Under the Supervision and Guidance of

Professor: Dr BIJU JOHN

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



DECLARATION

I, Sajin Thomas do here by declare that the project report entitled "A Study on life cycle of lime butterfly" is an authentic record of the work carried out by me under the guidance and supervision of Dr.BLJU JOHN Lecturer, Department of zoology, St.Mary's College Manarcadu and this work has not been submitted elsewhere for any other degree.

Place: Manarcadu

Sajin thomas

Date:

SPIDER DIVERSITY IN PANGADA



Project report submitted to the Mahatma Gandhi University for partial fulfilment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By SINDHU PRASAD (Reg. No. 180021043564)

Under the Supervision and Guidance of

Miss: VIDHYA P V

(Lecturer in Zoology Department)

St. Mary's College, Manarcaud



Vidhya P.V

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "Spider Diversity in Pangada" being submitted by Sindhu Prasad to Mahathma Gandhi University, Kottayam in partial fulfilment of the requirement for the award of the degree of Bachelor of Zoology in St.Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 30/3/2021

Too Smt. Vidhya P.V

A STUDY ON MOSQUITO FEEDING RATE BY TWO DIFFERENT FISHES



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
SISIRA T P
(Reg. No. 180021043565)

Under the Supervision and Guidance of

Miss: VIDHYA P.V ANJANA SANTHOSH

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud

ANJANA SANTHOSH

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "Mosquito feeding rate by two different fishes" being submitted by SISIRA T P to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St. Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 1/4/2021

Smt ANIONA SANTHOSH

A STUDY ONNATURALREPELLENTS OF COMMON HOUSE GECKO (Hemidactylusfrenatus)



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By SNEHA BINSON

(Reg. No. 180021043566)

Under the Supervision and Guidance of

Pro. Dr. Biju John

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



Dr.Biju John

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "A study on natural repellents of common house gecko (Hemidactylus frenatus)" being submitted by Sneha Binsonto Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St. Mary's College, Manarcadu during 2017-2020 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 15-03-2-21

Dr.BijuJohn

Oh

BIO WASTE MANAGEMENT, COMPOSTING AND COMPARISON STUDIES IN GARDEN VEGETABLES USING DIFFERENT MANURES



Project report submitted to the Mahatma Gandhi University for partial fulfilment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By SREEKESH POTTY C K (Reg. No. 180021043567)

Under the Supervision and Guidance of

Miss: VIDHYA P V

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud

Vidhya P.V

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "Bio waste management, Composting and Comparison studies in garden vegetables using different manures" being submitted by Sreekesh Potty CK to Mahathma Gandhi University, Kottayam in partial fulfilment of the requirement for the award of the degree of Bachelor of Zoology in St.Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 393/2021

For Smt. Vidhya P.V

A STUDY ON BIRD DIVERSITY



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By SREELAKSHMI VIJAYAN (Reg. No. 180021043568)

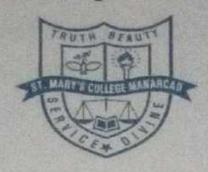
Under the Supervision and Guidance of

Miss: ANJANA SANTHOSH

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



STUDY OF THE QUALITY OF MILK



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By SRUJANA.A.J (Reg. No. 180021043569)

Under the Supervision and Guidance of
Dr.Biju.John
(Head of the Zoology Department)
St. Mary's College, Manarcaud



Dr.Biju.John

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "A study on the Quality of Milk" being submitted by Srujana.A.J to Mahatma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St.Mary's College, Manarcaud during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 15 - 3 - 2021

Dr.Biju.John

EFFECT OF SOFT DRINKS ON TEETH



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By

KAVYA SANTHOSH

(Reg. No. 180021043553)

Under the Supervision and Guidance of

Dr BIJU JOHN

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud

Dr. Biju John

Supervising Teacher

CERTIFICATE

This is to certify that the this entitled "Effect of soft drinks on teeth" being submitted by KAVYA SANTHOSH to Mahatma Gandhi University, Kottayam from in fullfilament of the requirements for the award of the degree of Bachelor of zoology in St.Mary's College, Manarcaud during 2018-2021 and no part of this project report has formed the basis for the award of any degree.

Place:Manarcaud

Date: 15 - 3 - 20 21

-00-

Dr. Biju John

A STUDY ON WELL WATER ANALYSIS



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By KEERTHANA K S (Reg. No. 180021043554)

Under the Supervision and Guidance of

Miss: VIDHYA P.V

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



Vidhya P.V

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "A study on well water analysis being submitted by Keerthana K S to Mahathma Gandhi University. Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St.Mary's College, Manarcadu during 2017-2020 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 30/9/2021

To Smt. Vidhya P.N

A STUDY ON DIVERSITY OF TERMITES



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
LOVIS P SAM
(Reg. No. 180021043555)

Under the Supervision and Guidance of

Miss: ANJANA SANTHOSH

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



Anjana Santhosh Supervising Teacher

CERTIFICATE

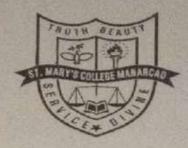
This is to certify that the thesis entitled "A study on diversity of termites" being submitted by Lovis P Sam to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St. Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 30 3 2021

Ms. Anjana Santhosh

A STUDY ON IDENTIFICATION OF PEST ON VEGETABLE PLANTS AND NATURAL REPELLENTS



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
Malavika S Nair
(Reg. No. 180021043556)

Under the Supervision and Guidance of

Dr .Biju John

(Head of Zoology Department)
St. Mary's College, Manarcaud

DEPARTMENT OF ZOOLOGY
ST.MARY'S COLLEGE MANARCAUD

(Affiliated to Mahatma Gandhi University)

KOTTAYAM



Dr.Biju John

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "A study on identification of pests on vegetable plants and natural repellents" being submitted by Malavika S Nair to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St.Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 15 - 03 - 2021

Dr.Biju John

FECUNDITY OF EARTH WORM IN FOUR DIFFERENT HABBIT



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
MEKHA SAJAN
(Reg. No. 180021043557)

Under the Supervision and Guidance of

Miss: VIDHYA P.V

(Lecturer in Zoology Department)

St. Mary's College, Manarcaud

Vidhya P.V

Supervising Teacher

CERTIFICATE

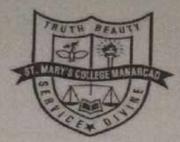
This is to certify that the thesis entitled "Fecundity of earth worm in four different habbit" being submitted by Mekha Sajan to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St.Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 4 shoul

Smt.Vidhya P.V

A STUDY ONREPTILE DIVERSITY



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
Mili Mary Mathew
(Reg. No. 180021043547)

Under the Supervision and Guidance of
Miss: ANJANA SANTHOSH

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



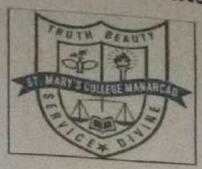
DECLARATION

I, Mili MaryMathew do here by declare that the project report entitled "A Study on Reptilediversity" is an authentic record of the work carried out by me under the guidance and supervision of Smt.Anjana Santhosh. Lecturer, Department of zoology, St.Mary's College Manarcadu and this work has not been submitted elsewhere for any other degree.

Place: Manarcadu

Date:13-7-2021

A STUDY ON HOUSEHOLDS INSECTS VARIETIS



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
ABY KANNAN
(Reg. No:180021043540)

Under the Supervision and Guidance of

Dr. Biju john

(Head of the department)

St. Mary's College, Manarcaud

Dr. Biju John

Head of zoology department

CERTIFICATE

This is to certify that the thesis entitled "a study of household insects variety" being submitted by Aby Kannan to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St. Mary's College, Manarcadu during 2017-2020 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu Dr. Biju John

Date:

A STUDY ON DIVERSITY AND DISTRIBUTION OF ODONATES IN THREE DIFFERENT LOCALITIES



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
AMAL PRAKASH
(Reg. No. 180021043542)

Under the Supervision and Guidance of

Miss: VIDHYA P.V

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



Vidhya P.V Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "A study on Diversity and distribution of odonates in three different localities" being submitted by Amal Prakash to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St.Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 30 3 202 |

Ms. Vidhya P.V

A STUDY ON IMPACTS OF PESTICIDES ON HONEYBEE



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
AMRUTHA A S
(Reg. No. 180021043543)

Under the Supervision and Guidance of

Miss: ANJANA SANTHOSH

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



AnjanaSanthosh

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "A study on impacts of pesticides on honeybee "being submitted by Amrutha A S to Mahatma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St. Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 30 3 202 9

Miss : AnjanaSanthosh

DIFFERENT TYPES OF SPIDERSAND SPIDER WEB



Project report submitted to the Mahatma Gandhi University for partial fulfillment of he requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
ARJUN A NAIR
(Reg. No. 180021043545)

Under the Supervision and Guidance of

Miss: VIDHYA P.V

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud

DEPARTMENT OF ZOOLOGY
ST.MARY'S COLLEGE MANARCAUD
(Affiliated to Mahatma Gandhi University)
KOTTAYAM

2018-2021



Vidhya P.V

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "DIFFERENT TYPES OF SPIDERS AND SPIDER WEB" being submitted by ARJUN A NAIRtoMahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St. Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date:15/03/2021

Smt. Vidhya P.V

THE STUDY OF POPULATION DENSITY OF OECOPHYLLA SMARAGDINA



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
ARYA P VIJAY
(Reg. No. 180021043546)

Under the Supervision and Guidance of

Miss: ANJANA SANTHOSH

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



Anjana Santhosh

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "Population density of Oecophylla smaragdina" being submitted by Arya p Vijay to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St. Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 30 3 2001

Ms. Anjana Santhos

A STUDY ON LARVICIDAL EFFECTS OF HERBAL EXTRACTS AGAINST MOSQUITO LARVAE



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
BIJIL BENNY
(Reg. No. 180021043548)

Under the Supervision and Guidance of

Miss: VIDHYA P.V

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



Vidhya P.V

Supervising Teacher

CERTIFICATE

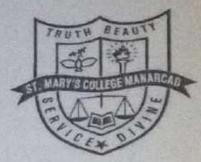
This is to certify that the thesis entitled "A study on larvicidal effects of garlic extracts against mosquito larvae" being submitted by Bijil Bennyto Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St.Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place:Manarcadu

Date: 30 3 2001

Smt. Vidhya P.V

A STUDY ON EFFECTS OF DETERGENTS INBREATING FISHES



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
Archana Aji

(Reg. No. 180021043544)

Under the Supervision and Guidance of
SIR: Dr. Bi ju John
(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



Dr. Biju John

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "A study on Effects of detergent in breathing fishes" being submitted by Archana Aji to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St.Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date:13-03-2021

Dr. Bi ju John

STUDY ON GUPPY BREEDING-THE FECUNDITY OF POECILIA RETICULATA WITH REFERENCE TO THEIR DIET



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
DEVIKA SAJI
(Reg. No. 180021043549)

Under the Supervision and Guidance of

Miss: ANJANA SANTHOSH

(Lecturer in Zoology Department)
St. Mary's College, Manarcaud



Anjana Santhosh

Supervising Teacher

CERTIFICATE

This is to certify that the thesis entitled "Study on guppy breeding-the fecundity of poecilia reticulata with reference to their diet" being submitted by Devika Saji to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St.Mary's College, Manarcadu during 2018-2021 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 15 3 2021

Miss. Anjana Santhos

A STUDY ON SEASONAL VARIATION OF LUPROPS TRISTIS



Project report submitted to the Mahatma Gandhi University for partial fulfillment of the requirements for the award of Bachelor of Degree in Zoology under the faculty of science

Submitted By
GEETHUMOL SASI
(Reg. No. 180021043550)

Under the Supervision and Guidance of

Sir: Dr. Biju John

(Head of zoology department)
St. Mary's College, Manarcaud



Dr. Biju John

Head of zoology department

CERTIFICATE

This is to certify that the thesis entitled "Seasonal variation of Luprops tristis" being submitted by Geethumol Sasi to Mahathma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of the degree of Bachelor of Zoology in St. Mary's College, Manarcadu during 2018-2029 and no part of the thesis has formed the basis for the award of any degree.

Place: Manarcadu

Date: 15 - 3 - 2 4

Dr. Biju John