This is to certify that the dissertation entitled "QR Code Application In Alphonsa College Zoology museum" is a bonafide work carried out by Ms. Anja Maria Varghese, of Department of Zoology, Alphonsa College, Pala, as partial fulfillment of the requirements for the award of B.SC. programme in Zoology of Mahatma Gandhi University during the period 2018-2021 under the supervision and guidance. This work has not been presented earlier for the award of any other degree.

Supervising Teacher

Dr.Sr.Manju Elizabeth Kuruvila

Place: Pala

Date:

Counter signed by, Namy

Dr.Sr.Manju Elizabeth Kuruvila

Head of the Department

This is to certify that the dissertation work entitled "DIVERSITY OF BUTTERFLIES IN GARDEN AREA OF WARD XII OF MANJOOR PANCHAYATH" is the bonafied work carried out by Miss. Sujina Mol. P.S, of the Department of Zoology, Alphonsa college, Pala in a partial fulfillment of the requirements for the award of B.Sc programme of in Zoology of Mahatma Gandhi university during the period 2018 to 2021.

Place: Pala

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Department of zoology



ALPHONSA COLLEGE PALA, KOTTAYAM - 686575, KERALA, INDIA

(Affiliated to Mg Vniversity, Kottayam)

CERTIFICATE

This is to certify that the dissertation, entitled "Spider Diversity in Selected Areas of Erattupetta Muncipality, Kottayam" submitted to the MG University of Kitayam in partial fulfillment of the requirements for the award of the Degree of Bachelor of Science in Zoology is a record of original research work done by Alfia K.S. during the period November 2020- March 2021 of her study in the Department of Zoology at Alphonsa College, Pala, Kottayam, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/Diploma/ Associateship/Fellowship or other similar title to any candidate in any University.

Place: Pala

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Dr. AMBILI T.R.

Asst. Prof., Department of Zoology, Alphonsa College, Pala

Signature of the Examiners

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2

Signature of the HOD

This is to certify that the dissertation work entitled "A STUDY, CLASSIFICATION, VISUALIZATION AND QR CODE GENERATION OF MUSEUM SPECIMEN, IN ZOOLOGY DEPARTMENT, ALPHONSA COLLEGE PALA" is the bonafied work carried out by Ms. Anna Elizabeth Antony of the department of zoology, Alphonsa college, Pala in a partial fulfillment of the requirements for the award of B. Sc programme of in Zoology of Mahatma Gandhi university during the period 2018 to 2021 under the supervision and guidance. This work has not been presented earlier for the award of any other degree.

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This is to certify that the project work entitled "DIVERSITY OF BIRDS IN WARD XIII OF THALAPPALAM GRAMAPANCHAYATH" is a bonafide work done by Miss. GREESHMA K. SURESH final year B.Sc. Zoology student of Alphonsa College, Pala in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science in the Mahatma Gandhi University, Kottayam under my supervision and guidance.

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CERTIFICATE

This is to certify that the dissertation entitled "SPIDER DIVERSITY IN SELECTED HABITATS OF KANJIRAPPALLY GRAMAPANCHAYATH" is a bonafied work carried out by Miss. Thasleema Beegum, 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

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Date:

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Affiliated to Mahatma Gandhi University

CERTIFICATE

This is to certify that the dissertation entitled "Study on feeding habit of earthworm" is a bonafide work carried out by Miss. Sherin Shaji, 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

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CERTIFICATE

This is to certify that the dissertation, entitled "Spider diversity in Selected Areas of Ettumanoor Muncipality, Kottayam" submitted to the MG University of Kitayam in partial fulfillment of the requirements for the award of the Degree of Bachelor of Science in Zoology is a record of original research work done by Vismaya Vijayan during the period November 2020- March 2021 of her study in the Department of Zoology at Alphorisa College, Pala, Kottayam, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/Diploma/ Associateship/Fellowship or other similar title to any candidate in any University.

Place: Pala

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CERTIFICATE

This is to certify that the dissertation, entitled "Studies on Spider Diversity in Selected Areas of Thidanadu Gramapanchayath, Kottayam" submitted to the MG University of Kttayam in partial fulfillment of the requirements for the award of the Degree of Bachelor of Science in Zoology is a record of original research work done by Athira V.R., during the period November 2020- March 2021 of her study in the Department of Zoology at Alphonsa College, Pala, Kottayam, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/Diploma/ Associateship/Fellowship or other similar title to any candidate in any University.

Place: Pala

Date:

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This is to certify that the dissertation work entitled "GENERATION OF QR CODE FOR SPECIMENS OF PISCES IN THE CLASS OSTEICHTHYES FROM THE MUSEUM OF ALPHONSA COLLEGE PALA," is the bonafied work carried out by Ms. Anjana Regi-Jose of the department of zoology, Alphonsa college, Pala in a partial fulfillment of the requirements for the award of B.Sc. programme of in Zoology of Mahatma Gandhi university during the period 2018 to 2021 under the supervision and guidance. This work has not been presented earlier for the award of any other degree.

Place: Pala

Date:

Supervising Teacher

Dr.Sr. Manju Elizabeth Kuruvila

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This is to certify that the dissertation work entitled " VIRTUAL REPRESENTATION OF SPECIMENS IN THE ZOOLOGY MUSEUM OF ALPHONSA COLLEGE PALA

THROUGH OR CODE,"is the bonafied work carried out by Ms AkshayaOmanakuttan of the department of zoology, Alphonsa college, Pala in a partial fulfillment of the requirements for the award of B.Sc programme of in Zoology of Mahatma. Gandhi university during the period 2018 to 2021 under the supervision and guidance. This work has not been presented earlier for the award of any other degree.

Place: Pala

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Dr.Sr Manju Elizabeth Kuruvila Head of the department Department of zoology

This is to certify that this project entitled "Butterfly Diversity in Alakode Panchayat of Kannur District," is a bonafide work carried out by Elba Joseph, Reg. No: 180021043003 under my guidance in the Department of Zoology, Alphonsa College, Pala during the academic year 2018-2021.

Place: Pala

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This is to certify that the dissertation work entitled "DIGITALIZATION OF ZOOLOGYMUSEUM SPECIMENS IN ALPHONSA COLLEGE PALA" is the bonafied work carried out by Ms.Shahanasalim of the department of zoology, Alphonsa college, Pala in a partial fulfillment of the requirements for the award of B.Sc programme of in Zoology of Mahatma — Gandhi university during the period 2018 to 2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

Place: Pala

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This is to certify that the dissertation work entitled "DIVERSITY OF DRAGONFLIES AND DAMSELFLIES IN WARD I OF PERUMBALAM PANCHAYATH, ALAPPUZHA" is a bonafide work carried out by Miss. Harilakshmi C.M., 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 2018-2021.

Place: Pala

Date: 16/7 121

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CERTIFICATE

This is to certify that the dissertation entitled "DIVERSITY OF ODONATA IN KIDANGOOR GRAMA PANCHAYATH, KOTTAYAM" is a bonafide work carried out by Miss. Anjitha M Pulickal., 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 2018 - 2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

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This is to certify that the dissertation entitled "QR code Generation for the species in Zoology Museum of Alphonta College, Pals" is a bonafide work carried out by Miss. Derline Jose, 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

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CERTIFICATE

This is to certify that the dissertation entitled "GRASSHOPER DIVERSITY IN KURINJIPLAVU VILLAGE" is a bonafide work carried out by Miss. Helen Sam., 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

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Head of the Department

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CERTIFICATE

This is to certify that the dissertation entitled "Immature stages and life cycle of different species under the order Lepidoptera" is a bonafide work carried out by Dona Frankson, 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

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Assistant Professor

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CERTIFICATE

This is to certify that the dissertation entitled "MANTID DIVERSITY AT THE RUBBER PLANTATION IN POOVATHODU VILLAGE" is a bonafide work carried out by Miss. Jasmin Saji, 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

Place: Pala

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This is to certify that this project entitled "Butterfly Diversity in Chakkuppallam Panchayathu, Idukki district." is a bonafide work carried out by Renukamol TH, Reg. No: 180021043016 under my guidance in the Department of Zoology, Alphonsa College, Pala during the academic year 2018-2021.

Place: Pala

Mrs. Teena James

Date:

Supervising teacher

Dept. of Zoology

Alphonsa college Pala

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Dr. Sr. Manju Elizabeth Kuruvila

HOD, Dept. of Zoology

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CERTIFICATE

This is to certify that the dissertation entitled " an investigation of livestock diseases among cattle in Mundakayam Grama Panchayat, Kerala " is a bonafide work carried out by Miss. Asija Antony., 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

Place: Pala

Date:

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Alphonsa College, Pala

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Dr. Sr. Manju Elizabeth Kuruvila

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Head of the Department

This is to certify that the dissertation entitled "DIVERSITY OF DRAGONFLIES AND DAMSELFLIES IN WARD XI OF THIDANADU GRAMAPANCHAYTH" is a bonafide work carried out by Miss. Aleena Francis of the Department of Zoology, Alphonsa College, Pala, in partial fulfillment the requirement for the award of B.Sc. programme in Zoology of M. G university during the period 2018 - 2021 supervision and guidance. This work has not been presented earlier for the award of any other degree.

Place: Pala

Date:

Supervising Teacher

for Ms. Jissa Joseph

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Counter Signed by,

Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department

Department of Zoology

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CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON ANT DIVERSITY IN WARD NO: 7 OF ELIKULAM GRAMAPANCHAYATH AND IDENTIFICATION OF HERBAL EXTRACTS AS ANT REPELLENT" is a bonafide work carried out by Miss. Devika Balachandran, 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

Place Pala

Dr. Maya George

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Assistant Professor

Department of Zoology

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Counter signed by,

Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department

This is to certify that the dissertation entitled "DIVERSITY OF BEETLES IN DIFFREND PLANTATION AREAS OF WARD VIII KAROOR PANCHAYATH" is a bonafide work carried out by Miss. SURYA SANTHOSH under my Guidance, in the Department of Zoology, Alphonsa College, Pala, during a course as partial Fulfillment of the requirements for the award of B.Sc. programme in Zoology in M.G. University during the period 2018 – 2021.

Place:

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Ms. POORNIMA BABY

Supervising Teacher

Department of Zoology

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Dr. Sr. Manju Elizabeth Kuruvila

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Department of Zoology

This is to certify that the dissertation entitled "DIVERSITY OF BEETLES IN WETLAND AND GARDEN AREAS OF WARD IX OF UDAYANAPURAM PANCHAYATH" is a bonafide work carried out by Miss. ANJANA SHIBU, under my guidance, in the Department of Zoology, Alphonsa College, Pala, during a course as partial fulfillment of the requirements for the award of B.Sc. programme in Zoology in M.G. University during the period 2018 – 2021.

Place: PALA

Date: 15-7-2021

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CERTIFICATE

This is to certify that the dissertation entitled "ANT DIVERSITY IN MUTTOM PANCHAYATH, IDUKKI" is a bonafide work carried out by Miss. Aswathy David, 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

Place: Pala

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Dr. Sr. Manju Elizabeth Kuruvila

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This is to certify that the project work entitled "EFFECTS OF NATURAL FEED AND ARTIFICIAL FEED ON COLOUR DEVELOPMENT AND GROWTH PERFORMANCE OF GUPPY (Poecilla reticulate)" is a bonafide work done by Miss. Anjana V S final year Bsc Zoology student of Alphonsa College, Pala in partial fulfillment of the requirement for the award of the Degree of Bachelor of science in the Mahatma Gandhi University, Kottayam under my supervision and guidance.

Place: Pala

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This is to certify that the dissertation entitled "EFFECTS OF VARIOUS FEEDS ON FAT, PROTEIN, LACTOSE AND MINERALS IN MILK OF HOLSTEIN FRIESIAN COW" is a bonafide work carried out by Miss Maneesha Sajan. Department of zoology, Alphonsa College Pala in partial fulfillment of the requirement for the award of BSC program in Zoology of MG University during period 2018 - 2021 under my supervision and guidance.

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CERTIFICATE

This is to certify that the dissertation entitled "ANT DIVERSITY AT ELAMPALLY VILLAGE IN PALLICKATHODU PANCHAYATH" is a bonafide work carried out by Miss. Aleena Soji., 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

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This is to certify that the dissertation entitled "DIVERSITY OF ANT IN SELECTED AREA OF MUNDAKAYAM GRAMA PANCHAYATH" is a bonafide work carried out by Miss. Sreelakshmi sanil, 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

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Mrs. Poornima baby

Assistant Professor

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CERTIFICATE

This is to certify that the dissertation entitled "FISH DIVERSITY IN PADDY FIELDS" is a bonafide work carried out by Miss. Greeshma jacob., 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

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Ms. Poormima Baby

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CERTIFICATE

This is to certify that the dissertion entitled 'EFFECT OF NATURAL AND ARTIFICIAL FEED ON COLOUR DEVELOPMENT AND GROWTH PERFORMANCE OF GUPPY' is a bonafid work carried out by miss. Poornima Baby, of the department of zoology, alphonsa college pala, in partial fulfilment of the requirement for the award B. Sc programme in zoology of M. G university during the period 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

Place :pala

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Ms. Poornima Baby

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

CERTIFICATE

This is to certify that the dissertation entitled "GRASSHOPPER DIVERSITY IN PULIKUNN, MUNDAKAYAM" is a bonafide work carried out by Miss. Sherimol Shaji, 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

Place: Pala

Date:

Dr. Simi mol Sebastian Department of Zoology Alphonsa College, Pala

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Counter signed by,

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

This is to certify that the dissertation work entitled DIVERSITY OF MOTH IN

WARD NO. 25 VAIKOM, MUNICIPALITY KOTTAYAM

is a bonafide work carried out by Miss. Athulya Rajendran 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 2018-2021.

Place: Pala

Date:

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Ms. Poornima Baby

Department of Zoology

Alphonsa College, Pala

Counter Signed by,

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Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department

Department of Zoology

This is to certify that this project entitled "Butterfly Diversity in Alakkode Panchayath of Kannur District." is a bonafide work carried out by Aleena Baby, Reg. No: 180021042979 under my guidance in the Department of Zoology, Alphonsa College, Pala during the academic year 2018-2021.

Place: Pala

Date:

Ms. Teena James

Supervising teacher

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Alphonsa college Pala

Many Counter signed by,

Dr. Sr. Manju Elizabeth Kuruvila

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This is to certify that the dissertation work entitled "DIVERSITY OF BUTTERFLIES IN GRASSLAND AREA OF WARD XII OF MANJOOR PANCHAYATH" is the bonafide work carried out by Miss. P.S. Nayana, of the department of Zoology, Alphonsa College, Pala, in a partial fulfilment of the requirements for the award of BSc Programme of in Zoology of Mahatma Gandhi University during the period 2018 to 2021.

Place: Pala

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Ms. Jissa Joseph

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CERTIFICATE

This is to certify that the dissertation entitled Bird Diversity in Ward No: 2 of Kappadu Village is a bonafide work carried out by Miss Elizabeth Saji, of the Department of Zeology, 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

Place: Pala

Dr. Simimol Sebastian

Date:

Assistant Professor

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Head of the Department

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This is to certify that the dissertation entitled "Grasshopper diversity" is a bonafide work carried out by Miss. Megha L., 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

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Date:

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This is to certify that the dissertation entitled "Ant Diversity in Vayala" is a bonafide work carried out by Miss Sruthi K Renjith, 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 2018-2021 under my supervision and guidance. This work has not been presented earlier for the award of any other degree.

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Assistant Professor

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Williamsky

Dr. Sr. Manju Elizabeth Kuruvila

Head of the Department



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MAY-2021

CERTIFICATE

This is to certify that the dissertation, entitled "Effect of Artificial and Natural Feed on Growth And Colour Development of Guppy (Poecilia reticulata)" submitted to the MG University of Kttayam in partial fulfillment of the requirements for the award of the Degree of Bachelor of Science in Zoology is a record of original research work done by Amruthamol K R during the period November 2020- March 2021 of her study in the Department of Zoology at Alphonsa College, Pala, Kottayam, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/Diploma/Associateship/Fellowship or other similar title to any candidate in any University.

Place: Pala

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Signature of the Guide

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Signature of the Examiners

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This is to certify that the dissertation, entitled "Studies on Moth Diversity in Selected Areas of Ramapuram Gramapanchayath, Kottayam District" submitted to the MG University of Kttayam in partial fulfillment of the requirements for the award of the Degree of Bachelor of Science in Zoology is a record of original research work done by Athulya Dev P. during the period November 2020- March 2021 of her study in the Department of Zoology at Alphonsa College, Pala, Kottayam, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/Diploma/ Associateship/Fellowship or other similar title to any candidate in any University.

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This is to certify that dissertation entitled
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