

CRITERION 1

CURRICULAR ASPECTS

METRIC NO. 1.3.3

M. Sc. Zoology

Field Work / Research Project / Internship











"EVALUATION OF SEMEN CHARACTERISTICS OF RANDOM POPULATION IN AN AROUND GUWAHATI, ASSAM"

A DISSERTATION SUBMITTED TO THE ASSAM ROYAL GLOBAL UNIVERSITY,

ASSAM, IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE OF

MASTER OF SCIENCE OF ZOOLOGY

SUBMITTED BY HIMADRI BORAH

ROLL NUMBER: 184142020

REG NO: 1181000

UNDER THE SUPERVISION OF

DR. ARIJIT CHAKRABORTY

DEPARTMENT OF ZOOLOGY

THE ASSAM ROYAL GLOBAL UNIVERSITY

ASSAM



THE ASSAM ROYAL GLOBAL UNIVERSITY ROYAL SCHOOL OF LIFE SCIENCES

Guwahati -781035, Assam, India

CERTIFICATE

This is to certify that *HIMADRI BORAH* a student in the Department of Zoology P.G. 4th Semester bearing Roll No- 184142020 and Registration No-1181000 of 2018-20 carried out the Project work entitled "EVALUATION OF SEMEN CHARACTERISTICS OF RANDOM POPULATION IN AN AROUND GUWAHATI, ASSAM "under my guidance. She/he has done all the experiments and sample collections in an ethical manner of The Assam Royal Global University. This Project records are prepared by himself/herself along with her group as per the requirement for the partial fulfillment of M.Sc. (Zoology) Degree as per the necessity of the syllabus and no part of the report is placed anywhere and in any form for any Degree.

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I wish him/her success and best wishes for him/her future life.

Signature of project guide -

(Dr. ARIJIT CHAKRABORTY)

Asst. Professor, Department of Zoology,

The Assam Royal Global University

Signature of HOD

(Dr. SUSMITA DEY)

Department of Zoology,

The Assam Royal Global University
HOD/Coordinator
Department of Zoology
Royal School of Life Sciences
The Assam Royal Global University
Betkuchi, NH 37, Guwahati 781035



Dissertation Topic

"EVALUATION OF SEMEN CHARACTERISTICS OF RANDOM POPULATION IN AN AROUND GUWAHATI, ASSAM"

Submitted to the Department of Zoology-THE ASSAM ROYALGLOBALUNIVERSITY

Super-Vision By:
Dr. ARIJIT CHAKRABORTY
Asst. Professor, Department of Zoology
Royal School of Life Sciences

Submitted ByANJUARA BEGUM
Roll No. - 184142003
Regd. No. -1180983
Dept. of Zoology
Royal School of Life Science

THE ASSAM ROYAL GLOBAL UNIVERSITY



ROYAL SCHOOL OF LIFESCIENCES

Guwahati -781035, Assam, India

CERTIFICATE

This is to certify that ANJUARA BEGUM a student in the Department of Zoology P.G. 4th Semester bearing Roll No- 184142003 and Registration No-1180983 of 2018-20 carried out the Project work entitled "EVALUATION OF SEMEN CHARACTERISTICS OF RANDOM POPULATION IN AN AROUND GUWAHATI, ASSAM "under my guidance. She/he has done all the experiments and sample collections in an ethical manner of The Assam Royal Global University. This Project records are prepared by himself/herself along with her group as per the requirement for the partial fulfillment of M.Sc. (Zoology) Degree as per the necessity of the syllabus and no part of the report is placed anywhere and in any form for any Degree.

I wish him/her success and best wishes for him/her future life.

Signature of project guide -

(Dr. ARIJIT CHAKRABORTY)

Asst. Professor, Department of Zoology,

The Assam Royal Global University

Signature of HOD

(Dr. SUSMITA DEY)

Department of Zoology,

The Assam Royal Global University HOD/Coordinator

Department of Zoology

Royal School of Life Sciences The Assam Royal Global University

Betkuchi, NH 37, Guwanati 781035

Goominad 16.06.20

A REVIEW STUDY ON THE PROTOZOAN AND FUNGAL FISH DISEASES PREVALENT IN INDIA



Submitted by

Kashmiri Saikia

M.Sc Zoology 4th Semester

Roll No-184142026

Registration No-1181005

Supervised By

Miss Dipanneeta Das Gupta

Assistant Professor

Department of Zoology



This is to certify that Kashmiri Saikia, Roll No- 184142026, a student of M.Sc Zoology 4th semester has successfully completed the project on the topic "A REVIEW STUDY ON PROTOZOAN AND FUNGAL FISH DISEASES PREVALENT IN INDIA" under the guidance of Miss Dipanneeta Das Gupta (Department of Zoology) during the year 2019-2020.

This is also to certify that this project report is an original project submitted as a part of the curriculum with all the formalities as per the requirements. All references have been duly acknowledged.

Signature of project guide

Signature of HOD

HOD/Coordinator

Department of Zoology

Royal School of Life Sciences
The Assam Royal Global University

Betkuchi, NH 37, Guwahati 781035

BIODIVERSITY STUDY OF ORTHOPTERA IN KAMRUP (RURAL) DISTRICT OF ASSAM



Project Report Submitted To The Assam Royal Global University For The Fulfilment of Prescribed Syllabus Of M.Sc Course in Zoology.

Submitted By-

NEHA PRITAM KASHYAP

Roll No-184142035

Reg No- 1181013

Supervised By-

Dr. SUSMITA DEY

HOD, Assistant Professor

Department of Zoology

Royal School of Life Sciences

The Assam Royal Global University

Year-2020

This is to certify that the project report entitled, "Biodiversity Study of Orthoptera in Kamrup (Rural) District of Assam" is the outcome of a bona fide work done by Neha Pritam Kashyap bearing Roll No- 184142035 in partial fulfilment of the requirements for the award of the degree Master of Science in Zoology during the year 2018-2020. This work has not been submitted previously for any other degree in any other university. It is further certified that the candidate has complied with all the formalities as per the requirements of The Assam Royal Global University, Guwahati.

Signature of Project Supervisor

Signature of Head of the Department

Dr. Susmita Dey

HOD, Assistant Professor

Department of Zoology

Royal School of Life Sciences

The Assam Royal Global University

Dr. Susmita Dey

HOD, Assistant Professor

Department of Zoology

Royal School of Life Sciences

The Assam Royal Global University HOD/Coordinator

Department of Zoology

Royal School of Life Sciences

The Assam Royal Global University

Betkuchi, NH 37, Guwahati 781035

"ENTOMOPHAGY WITH SPECIAL REFERANCE TO MAJULI DISTRICT (RURAL), ASSAM"

Submitted to the Department of Zoology
In partial fulfillment of the requirement for M.Sc. (Zoology) course,
The Assam Royal Global University



Submitted by:

INDUBHUSHAN KALITA M.SC ZOOLOGY 4TH SEMESTER ROLL NO: 1814142022 Reg. No-1181002

RSLSC

Submitted to:

DR. MITRAJIT DEB.
ASST. PROF. OF RGU
THE ASSAM ROYAL GLOBAL
UNIVERSITY



THE ASSAM ROYAL GLOBAL UNIVERSITY ROYAL SCHOOL OF LIFE SCIENCE GUWAHATI-781035, ASSAM, INDIA

CERTIFICATE

This is to certify that INDUBHUSHAN KALITA a student in the Department of zoology P.G 4TH Semester bearing Roll No 184142022 and Registration No 1181002 of 2018-20 carried out the project work under my guidance. He has done all the experiments and sample collections in an ethical manner of THE ASSAM ROYAL GLOBAL UNIVERSITY. This project records are prepared by himself as per the requirement for the partial fulfillment of M.Sc. (Zoology) Degree as per the necessity of the syllabus and no part of the report is placed anywhere and in any form for any Degree

I wish him success and best wishes for his\her future life.

sutrajit Beb

(Dr Mitrajit De

Asst. professor, Department of zoology THE ASSAM ROYAL GLOBAL UNIVERSITY

Royal School of Life Sciences MOVAL SCHOOLOF LIFE SCIENCES STAY The Assam Royal Godal University

Berkuchi, NH 37, Guwahan 781035

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Dissertation Topic

"Study on Fish Diversity and Seasonal variation of fish species found in Bogibeel, Dibrugarh , Assam"

A Project Report

Submitted in partial fulfillment of the requirement for the

DEGREE OF

MASTER OF SCIENCE IN ZOOLOGY

To The Assam Royal Global University, Assam

Supervised by -

Dr. SUSMITA DEY

Head of Department, Department of Zoology

Royal School of Life Science

Submitted by -

IPSHITA PHUKAN

Roll No: 194142021

Reg. No: 1191218

M.Sc 4th Semester (Dept. of Zoology)

Certificate

This is to certify that the dissertation project on the topic "Fish diversity and seasonal variation of fish species found in Bogibeel, Dibrugarh, Assam" written and submitted by Miss Ipshita Phukan (194142021), student of M.Sc 4th semester Department of Zoology, Royal School of Life Science, The Assam Royal Global University is a genuine record of the project done by her under my guidance and supervision during the academic session of 2020 -2021.

She has fulfilled all the requirements of the project work under The Assam Royal Global University.

The project is the result of her own observation .

Granined Ahned

Signature of the Supervisor

Date: |8 11 21

HOD/Coordinator
Department of Zoology
Royal School of Life Sciences
The Assam Royal Global University
Bethachi, NH 37, Guwahati 781035



Disseratation topic:

To identify causative factors for idiopathic male infertility with special reference to semen analysis in Guwahati metropolitan Area, Assam

Supervised by:

Dr. Susmita Dey, H.O.D. of Zoology dept. Royal School of life science.

Co-Supervised by:

Dr. Arijit Chakraborty, Former Asst. Prof. dept. of Zoology

Submitted By:

Begom Roushanara Ahmed Roll No: 194142009 Regn. No: 1191206 Dept. of Zoology Royal School of Life Science



THE ASSAM ROYAL GLOBAL UNIVERSITY

ROYAL SCHOOL OF LIFE SCIENCE GUWAHATI-781035, ASSAM,

CERTIFICATE

This certify that Begom Roushanara Ahmed a student in the department of Zoology P.G. 4th sem. bearing roll no-194142009 and regd. No- 1191206 carried out the project work entitled" <u>To identify causative factors for idiopathic male infertility with special reference to semen analysis in Guwahati metropolitan Area, Assam</u> " under my guidance. She/he has done all the experiments and sample collection in an ethical manner of the Assam Royal global university. This projects records are prepared by himself/herself along with her group as per requirements for the partial fulfillment of MSc Zoology Degree as per necessity of the syllabus and no part of the report anywhere and in my form for any degree.

I wish him /her success and best wishes for him or her future life

Examined Ahmed

Signature of project guide

(Dr. Susmita Dey, HOD of Zoology dept.)

The Assam Royal Global University

Co-supervised by-

(Dr. Arijit Chakrabarty, former Asst. prof.)

The Assam Royal Global University

HOD/Coordinator

Department of Zoology Royal School of Life Sciences

The Assam Royal Global University Betkuchi, NH 37, Guwahati 781035

A study on

A demographic study to develop a prediction tool for liver disease in different ethnic groups of Assam

A Report submitted in partial fulfillment of the requirements for the degree of

Master of Science

Under



UNDER THE SUPERVISION OF:

Dr. Susmita Dey

Coordinator, Assistant Professor

Department of Zoology

Royal School of Life Sciences

The Assam Royal Global University, Guwahati

UNDER THE CO-SUPERVISION OF:

Dr. Dola Das

Adjunct Assistant Professor

Research Associate of Biomedical Engineering

Lerner College of Medicine, Cleveland Clinic, Ohio

SUBMITTED BY:

Bandana Sarma

School: Royal School of Life Sciences

Department: Zoology

Programme: M.Sc.

Registration No.: 1191204

Roll no: 194142007

The Assam Royal Global University

Session: 2019-21

This is to certify that the dissertation report entitled "A demographic study to develop a prediction tool for liver disease in different ethnic groups of Assam" is an original project work carried out and submitted by Bandana Sarma, Roll No-194142007, Registration No-1191204, is a regular student of the Department of Zoology, Royal School of Life Sciences, in partial fulfillment of the requirement for the award of the degree of Master of Science under The Assam Royal Global University, Guwahati during the year 2021, under my supervision.

Examined sound

Signature of Project supervisor and HoD

Dr. Susmita Dey

Coordinator

Assistant Professor

Department of Zoology

Royal School of Life Sciences

The Assam Royal Global University

HOD/Coordinator
Department of Zoology
Royal School of Life Sciences
The Assam Royal Global University
Betkuchi, NH 37, Guwahati 781035



STUDY ON

"EFFECT'S OF BIOFLOC ON GROWTH OF FISH (Labeo bata)".

A REPORT SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIRMENTS
FOR THE DEGREE OF MASTER OF SCIENCE OF ZOOLOGY.

UNDER THE GUIDANCE OF

DR.SUSMITA DEY
DR.ARIJIT CHAKRABORTY
DEPARTMENT OF ZOOLOGY
ROYAL SCHOOL OF LIFE SCIENCE
ROYAL GLOBAL UNIVERSITY, GUWAHATI.

SUBMITTED BY

AZMINA KHATUN Roll No. 194142005

This is Certified that the Project/dissertation on the topic "Effect's of biofloc on growth of fish", submitted by Azmina Khatun (194142005), students of M.Sc Zoology. I hereby certify that the Project/dissertation titled "Effect's of biofloc on growth of fish (Labeo bata)", submitted to the Department of Zoology, Royal School of Life Sciences, The Assam Royal Global University, has been carried out by them under my supervision.

Examined Ahmed

(Name and Signature of Supervisor)

Dr. Susmita Dey

Date: 08/11
Place: Gnwahati

HOD/Coordinator Department of Zoology Royal School of Life Sciences The Assam Royal Global University Betkuchi, NH 37, Guwahati 781035



STUDY ON

"EFFECT'S OF BIOFLOC ON GROWTH OF FISH (Labeo bata)".

A REPORT SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIRMENTS
FOR THE DEGREE OF MASTER OF SCIENCE OF ZOOLOGY.

UNDER THE GUIDANCE OF

DR.SUSMITA DEY

DR.ARIJIT CHAKRABORTY

DEPARTMENT OF ZOOLOGY

ROYAL SCHOOL OF LIFE SCIENCE

ROYAL GLOBAL UNIVERSITY, GUWAHATI.

SUBMITTED BY

MONIR HASAN Roll No. 194142033

This is Certified that the Project/dissertation on the topic "Effect's of biofloc on growth of fish", submitted by Monir Hasan (194142033), students of M.Sc Zoology. I hereby certify that the Project/dissertation titled "Effect's of biofloc on growth of fish (Labeo bata)", "submitted to the Department of Zoology, Royal School of Life Sciences, The Assam Royal Global University, has been carried out by them under my supervision.

Examined Ahmed

(Name and Signature of Supervisor)

Dr. Susmita Dey

Date: Oc/11/21
Place: Gnwahati

HOD/Coordinator Department of Zoology Royal School of Life Sciences The Assam Royal Global University Betkuchi, NH 37, Guwahati 781035

A study on

COMPARATIVE ANALYSIS OF LENGTH-WEIGHT RELATIONSHIP OF Labeo robita IN THREE DIFFERENT PLACES OF ASSAM

A Report submitted in partial fulfillment of the requirements for the degree of M.Sc Zoology

Under



Submitted by:

Name: Aysha Siddika

School: Royal School of Life Science

Department: Zoology

Programme: Masters of Science

Registration No.:1201337

Roll No: 204142007

This is to certify that Aysha Siddika, a student of M.Sc Zoology (4th semester), bearing Roll No.: 204142007 has Successfully completed the Project "COMPERATIVE ANALYSIS OF LENGTH WEIGHT RELATIONSHIP OF Labeo rohita IN THREE DIFFERENT PLACE OF ASSAM", under the guidance of Dr. Susmita Dey.

The project report is the record of authentic work carried out by him/her during the period from 2021 to 2022

Dr. Susmita Dev

(Head of the Department of Zoology

Royal School of Life Sciences

Department Sezoblogal Global University

Betkuchi, NH 37, Guwahati 781035

Royal School of Life Science

The Assam Royal Global University

Dr.Susmita Dev

(Project Guide)

Head of the Department

Royal School of Life Science

A STUDY ON BIODIVERSITY OF ARACHNIDA IN AHOM GAON, *KAMRUP, ASSAM

A dissertation submitted for the partial fulfilment of the requirements for the degree of
Masters of Science in Zoology

Offered by

THE ROYAL SCHOOL OF LIFE SCIENCES

Submitted by:

Name: Jitumani Nath

Registration No.: 1201344

Roll No.: 204142014

Academic project guide:

Name: DR. MITRAJIT DEB

Designation: Assistant Professor

Department of zoology

Royal school of life sciences

I hereby certify that the project report/dissertation, "A study on diversity of Arachnida in Ahom Gaon, Kamrup, Assam" by Jitumani Nath bearing roll no. 204142014 and registration no. 1201344 in partial fulfilment of the requirements for the award of the degree Masters of Science (Zoology) during the year 2020-2022 in The Assam Royal Global University is a record of bona fide research work under my supervision and guidance and that it has not previously formed the basis for the award of any degree, diploma, associateship, fellowship or any other similar title recognition. It is further certified that the candidate has complied with all the formalities as per the requirements of the university.

Nutrojit 606.

Dr. Mitrajit Deb

Supervisor/Guide

Assistant Professor

Department of Zoology

Royal School of Life Sciences

The Assam Royal Global University

Sout 28/7/22

Dr Sushmita Dey

Head of the Department

Department of Zoology Royal School Life Ges Nes

The Assam Royal Global University Beth Department Of Zanalogy 1035

Royal School of Life Sciences

A study on

COMPARATIVE ANALYSIS OF LENGTH-WEIGHT RELATIONSHIP OF Labeo rohita IN THREE DIFFERENTPLACES OF ASSAM

A Report submitted in partial fulfillment of the requirements for the degree of M.Sc Zoology

Under



Submitted by:

Name: Mehezubin Sultana

School: Royal School of Life Science

Department: Zoology

Programme: Masters of Science

Registration No.:1201348

Roll No: 204142018

This is to certify that Mehezubin Sultana a student of M.Sc Zoology (4th semester), bearing Roll No.: 204142018 has Successfully completed the Project "COMPERATIVE ANALYSIS OF LENGTH WEIGHT RELATIONSHIP OF Labeo robita IN THREE DIFFERENT PLACE OF ASSAM", under the guidance of Dr. Susmita Dey.

The project report is the record of authentic work carried out by him/her during the period from 2021 to 2022

Dr. Susmita Dey

(Head of the Department of Dep

Department of Zoolegy bal University
The Assam Royal Cary bal University Royal School of Life Science

Dr.Susmita Dey

(Project Guide)

Head of the Department

Royal School of Life Science

The Assam Royal Global University

HOD/Coordinator

Department of Zoology

Royal School of Life Sciences

The Assam Royal Global University Betkuehr, NH 37; Gowahati 781035 The Assam Royal Global University

I

This is to certify that UMMAH HABIBA ISLAM, a student of M.Sc Zoology (4th semester), bearing Roll No.: 204142041 has Successfully completed the Project "AN ASSESMENT OF AVIAN ASSEMBLAGE IN DEEPOR BEEL RAMSAR SITE) KAMRUP, ASSAM", under the guidance of Dr. Mitrajit Deb.

The project report is the record of authentic work carried out by him/her during the period from 2021 to 2022

Dr. Susmita Dev

(Head of the Department)

Department of Zoology

Royal School of Life Science

The Assam Royal Global University HOD/Coordinator

Department of Zoology Royal School of Life Sciences The Assam Royal Global University

Betkuchi, NH 37, Guwahati 781035

Dr. Mitrajit Deb

(Project Guide)

Assistant professor

Royal School of Life Science

STUDY OF DIFFERENT TYPE OF FISHING GEARS AND THEIR FISHING METHODS IN DHEMAJI DISTRICT



Submitted By-

TILESWAR BURAGOHAIN

M.Sc Zoology 4th Semester

Roll No- 204142039

Registration No- 1201369

Department of Zoology

The Assam Royal Global University, Guwahati

Supervised By-

Dr. Susmita Dey

(Head of the Department, zoology)

This is to certify that the dissertation submitted by, TILESWAR BURAGOHAIN, student of M.Sc 4th semester entitled, 'A STUDY ON DIFFERENT TYPE OF FISHING GEARS AND THEIR FISH CATCHING METHODS IN DHEMAJI DISTRICT' to the department of Zoology, Royal School Of Life Science, The Assam Royal Global University, in the partial fulfilment for the award of the Degree of Masters in Science in Zoology has been examined by us and found to be satisfactory.

The committee recommends for the award of the degree of M.Sc. in Zoology.

Supervisor

External Examiner

Date-21-06-2023

Date: 19.06.2023

HOD/Coordinator Department of Zoology Royal School of Life Sciences The Assam Royal Global University

Date: 19.06.2023

A Study on

The diversity of Odonata in Garoghuli, Kamrup (M), Assam, India

A dissertion submitted in partial fulfillment of the requirement for the degree of Masters of Science in Zoology



Submitted By:

Clinton Moirangthem

Registration No: 1180488

Roll No: 214142008

Under the supervision of

Dr Mitrajit Deb,

Assistant Professor and Co-ordinator
Royal School of Life sciences
The Assam Royal Global University
Betkuchi, Guwahati- 781035
Assam, India
2021-2023



I would like to certify that the project work entitled "A study on the diversity of Odonata in Garoghuli area, Kamrup (M), Assam" under the guidance and supervision of bonafide work by Clinton Moirangthem, Roll numbr 21414208, Registration number 1180488, M.Sc. Zoology 4th semester, Royal school of Life Sciences. This report is carried out in partial fulfillment of M.Sc. course of The Assam Royal Global University.

The dissertation work is original and the facts and the findings submitted in the report are entirely the work of the student.

This dissertation report is the record of authentic work carried out by him during the dissertation work period from October 2022 - March 2023.

He has worked under the guidance of Dr. Mitrajit Deb.

Project Guide:

HOD!Coordinator Department of Zoology Royal School of Life Sciences Department of Life Sciences

Royal School of Life School

The Assam Royal Global University

Guwahati, Assam - 781035

Assessment of the staining potential of rhizome of Curcuma longa and petals of Clitoria ternatea in different cells and tissues

A report submitted in partial fulfillment of the requirements for the degree of M.Sc. in Zoology under The Assam Royal Global University



SUBMITTED BY:

Ananya Chamuah

Royal School of Life Sciences

Department of Zoology

Registration no :1211556

Roll no 214142001

This is to certify that Ananya Chamuah, a student of M. Sc Zoology, 4th semester bearing Roll No.: 214142001 has successfully completed the project "Assessment of the staining potential of rhizomes of Curcuma longa and petals of Clitoria ternate in different cells and tissues" under the guidance of Dr. Dharmeswar Barhoi, Assistant Professor, Department of Zoology and co-guidance of Ms. Sangeeta Biswas, Assistant Professor, Department of Zoology, The Assam Royal Global University.

Signature of the project guide

Dr. Dharmeswar Barhoi

Assistant Professor

Department of Zoology

The Assam Royal Global University

Signature of the project co-guide

Ms. Sangeeta Biswas

Assistant Professor

Department of Zoology

The Assam Royal Global University

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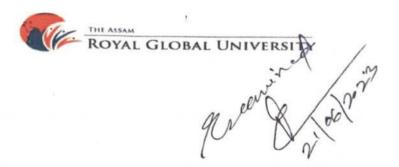
HOD/Coordinator
Department of Zoology
Royal School of Life Sciences
The Assam Royal Global University
Betkuchi, NH 37, Guwahati 781035

Study on

The Lepidoptera: Rhopalocera diversity and abundance in Gotanagar, Assam

A dissertation submitted in the partial fulfillment of the requirements for the degree of Master of Sciences in Zoology

Under



Submitted by

Name: Bhitali Barkakati

School: Royal School of Life Sciences

Department: Zoology

Programme: Mater of Sciences

Registration No.: 1180487

Roll No.: 214142006

I would like to certify that the project work entitled "Study on the Lepidoptera: Rhopalocera diversity and abundance in Gotangar, Assam" under the guidance and supervision of bonafide work by Bhitali Barkakati, Roll No. 214142006, Registration No.: 1180487, M.Sc. Zoology 4th semester, Royal School of Life Sciences. This report is carried out in partial fulfillment of M.Sc. course of Royal Global University.

This work is original, and the facts and findings submitted in the report are entirely the work of the student.

This project report is the record of authentic work carried out by her during the period from October 2022- March 2023.

She has worked under the guidance of Dr. Mitrajit Deb.

Project Guide:

.. Department of Zoology Royal School of Life Sciences

The Assam Royal Global University The Assam Royal Global University Assistant Professor and Control NH 37, Guwahati 781035

Department

Department of Zoology

Royal School of Life Sciences

The Assam Royal Global University

Guwahati, Assam-781035

A study on Green synthesis of Silver nanoparticles from Enhydra fluctuans leaf extract and to study its antioxidant potentials and antibacterial properties using Bacillus subtilis.

(A report submitted for partial fulfillment of the requirement for the degree of Masters of Science in Zoology)



SUBMITTED BY:

Ananya Mukhopadhyay Royal School of Life Science Department of Zoology M.Sc. Zoology

Registration No.: 1211557

Roll No.: 214142002

This is to certify that the project report entitled "A study on Green synthesis of Silver nanoparticles from Enhydra fluctuans leaf extract and to study its antioxidant potentials and antibacterial properties using Bacillus subtilis" submitted to the Department of Zoology, Royal School of Life Sciences, The Assam Royal Global University in fulfillment of the requirements of the Dissertation as a part of MSc. Zoology 4 Semester for Master's Degree in Zoology under RGU is a record of research work carried out by Ananya Mukhopadhyay, bearing Registration No. 1211557 and Roll No. 214142002 under my supervision and guidance. All help received by her during her project work has been duly acknowledged. No part of this report has been reproduced elsewhere for any other degree.

Signature of Project Guide

Animilha Chakraborty Signature of Co-Project Guide

(Dr. Dharmeswar Barhoi)

Department of Zoology

(Anurudha Chakraborty)

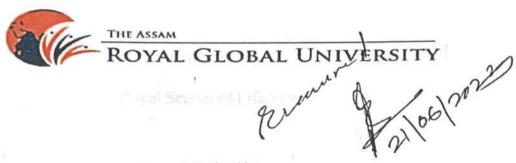
Department of Zoology

HOD/Coordinator
Department of Zoology
Royal School of Life Sciences
The Assam Royal Global University
Betkuchi, NH 37, Guwahati 781035

A study on Developing of Urban Butterfly Garden in Arya Nagar, Guwahati, Assam

A report submitted in partial fulfilment of the requirements for the degree of Master of Science in Zoology

Under



Submitted by:

Name: Chanda Gowala

School: Royal School of Life Sciences

Department: Zoology

Programme: M.Sc (4th semester)

Registration No.: 1211561

Roll No.: 214142007

I would like to certify that the project work entitled "A Study on Developing of Urban Butterfly Garden in Arya Nagar, Guwahati, Assam" under my guidance and supervision is a bonafide work by Chanda Gowala, Roll No.: 214142007, Registration No.: 1211561, M.Sc Zoology (4th semester), Royal School of Life Sciences. This report is carried out in partial fulfillment of M.Sc course of The Assam Royal Global University.

This work is original, and the facts and findings submitted in the report are entirely the work of the student.

This project report is the record of authentic work carried out by her during the period from 2022-2023.

She has worked under the guidance of Dr. Mitrajit Deb.

Project Guide:

Department of Zoology Royal School of Life Sciences The Assam Royal Global University

Dr. Mitrajit Deb

Betkuchi, NH 37, Guwahati 781035

Department of Zoology

Royal School of Life Science

The Assam Royal Global University

Betkuchi, Guwahati, Assam