



গড়গাঁও মহাবিদ্যালয়
GARGAON COLLEGE

**PROJECT REPORT ON
NON-CHORDATES I
2022-23**

**DEPARTMENT OF ZOOLOGY
GARGAON COLLEGE
SIMALUGURI**



DEPARTMENT OF ZOOLOGY

Brief description of the program

A project was conducted and submitted on non-Chordates I by the students of B. Sc 1st Semester, Department of Zoology, Gargaon College, as part of their theoretical syllabus on 10th November 2022. The project was carried out under Dr. Pimily Langthasa, Assistant Professor, Department of Zoology, Gargaon College. The topics included structural organization and nutrition in Paramecium, Evolutionary Significance of Ctenophora larva, Structural organization and nutrition in Paramecium, Structural organization and nutrition in Amoeba, Spicules in sponges, Canal system in phylum Porifera, Metagenesis in Obelia, Life cycle and pathogenicity of *Plasmodium vivax*, Life cycle and pathogenicity of *Taenium solium*, Life cycle of *Ascaris lumbricoides* and Parasitic Adaptations of Helminths.

Rationality of the report:

Studying non-chordates, which constitute the vast majority of animal species on Earth, is of significant importance for several reasons: Non-chordates play critical roles in various ecosystems. For instance, insects are essential pollinators, decomposers, and prey for other species. Mollusks filter water and impact nutrient cycling in aquatic environments. Annelids contribute to soil health through their burrowing activities. Studying these organisms helps us understand the complex web of interactions within ecosystems. Many non-chordates have direct economic importance. Insects can be pests that damage crops, and controlling them is crucial for agriculture. Aquatic non-chordates like shrimp and crayfish are important for the seafood industry. Understanding their biology and behavior is essential for sustainable resource management. Non-chordates often serve as model organisms in scientific research. For example, the fruit fly (*Drosophila melanogaster*) is a common model for genetics and developmental biology. Insights gained from these studies have direct implications for human health and biology. Many non-chordate species are threatened or endangered due to habitat loss, pollution, and climate change. Studying these organisms is essential for developing conservation strategies and preserving biodiversity.



গড়গাঁও মহাবিদ্যালয়

GARGAON COLLEGE

List of students

Name of the Student	Roll Number	Project Title	Supervisor
Elimon Bailung	18520070	'Structural organization and nutrition in Paramecium'	Pimily Langthasa
Mintu Buragohain	18520114	Evolutionary Significance of Ctenophora larva'	Pimily Langthasa
Sunny Dutta	18520180	'Structural organization and nutrition in Euglena'	Pimily Langthasa
Anamika Gogoi	18520189	'Structural organization and nutrition in Paramecium'	Pimily Langthasa
Ananya Konwar	18520190	Life cycle and pathogenicity of <i>Taenium solium</i> '	Pimily Langthasa
Anneksha Pator	18520193	Life cycle of <i>Ascaris lumbricoides</i> '	Pimily Langthasa
Geetanjoli Teli	18520211	Parasitic Adaptations of Helminths'	Pimily Langthasa
Gitashree Tamuli	18520212	Spicules in sponges'	Pimily Langthasa
Lojee Kurmi	18520229	Parasitic Adaptations of Helminths'	Pimily Langthasa
Lucky Rajkumari	18520230	Canal system in phylum Porifera'	Pimily Langthasa
Luna Borah	18520231	Life cycle and pathogenicity of <i>Taenium solium</i> '	Pimily Langthasa
Manashi Subba	18520233	Structural organization and nutrition in Amoeba'	Pimily Langthasa
Gayatri Arandhara	18520235	Metagenesis in Obelia	Pimily Langthasa
Muskan Rohman	18520240	Life cycle and pathogenicity of <i>Plasmodium vivax</i>	Pimily Langthasa
Shikha Chutia	18520271	Canal system in phylum Porifera	Pimily Langthasa
Sneha Sensuwa	18520273	'Structural organization and nutrition in Euglena'	Pimily Langthasa
Sudeshya Mirdha	18520281	Life cycle and pathogenicity of <i>Taenium solium</i> '	Pimily Langthasa
Sunirmala Mirdha	18520284	Metagenesis in Obelia	Pimily Langthasa

PROJECT REPORT ON

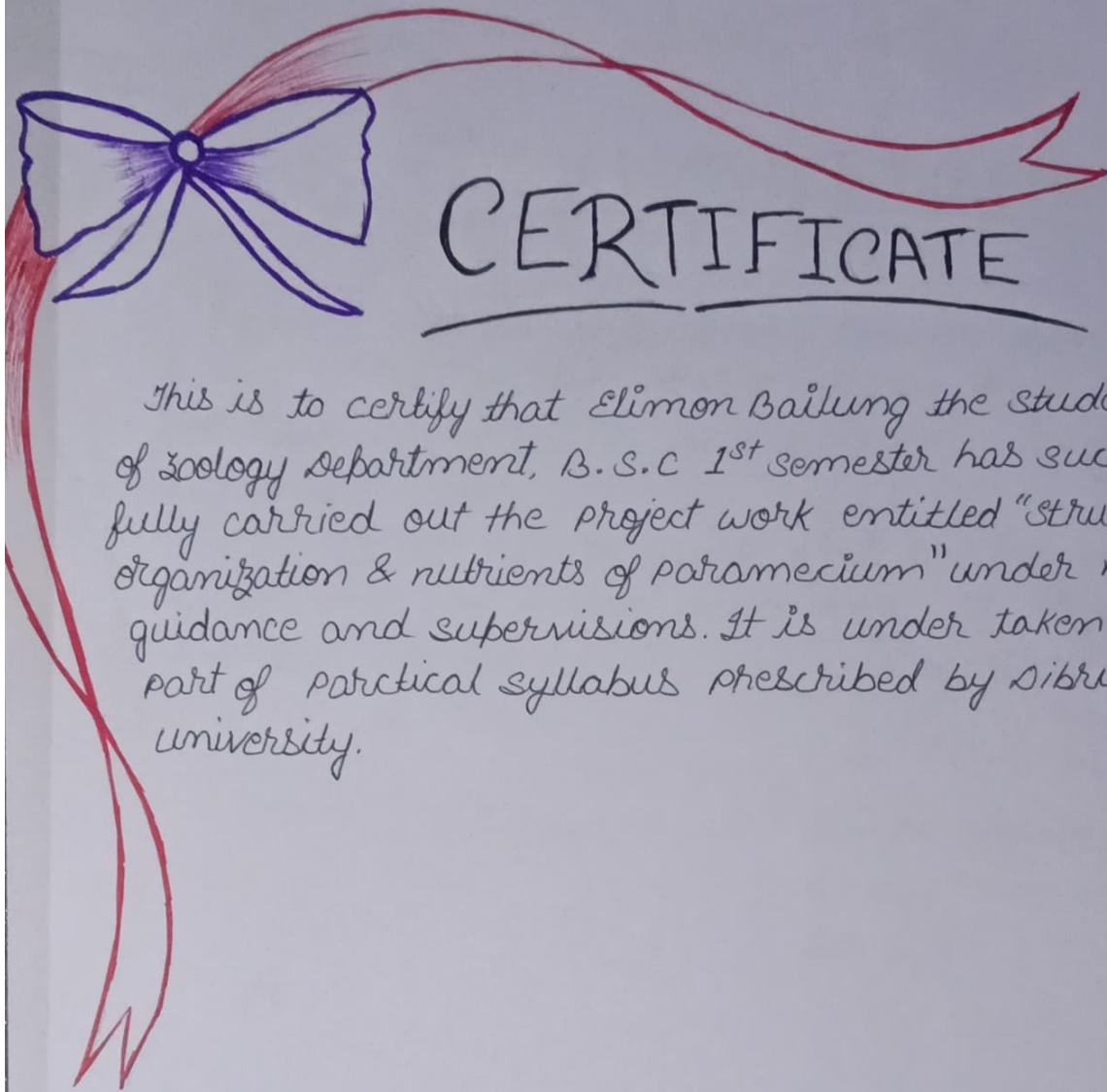
Structural organization &
Nutrients of Paramecium

Session - 2022-23

Date - 10/11/22

Submitted by
Elimon Bailing
B.S.C 1st semester
Department Zoology
Roll NO - 97
Exam Roll NO - 18520070
Registration NO - S2205679

Examined
Alok
9/12/22



CERTIFICATE

This is to certify that Elimon Bailing the student of Zoology department, B.S.C 1st semester has successfully carried out the project work entitled "Structural organization & nutrients of Paramecium" under my guidance and supervisions. It is under taken as a part of practical syllabus prescribed by Sibsbugarkh University.

Langthasa 11/10/2022

Signature of Guide
Mrs. Pimily Langthasa
Zoology Department
Gargaon collage
Simaluguri (Assam)

Rina
Department of Zoology
GARGAON COLLEGE
Simaluguri.

Signature
Dr. Rina Handique
Head of Department
Zoology Department
Gargaon collage
Simaluguri (Assam)

PROJECT REPORT ON

Evolutionary Significance of Ctenophora

Session - 2021-22

Date - 17.10.2022

Examined
A. M. Ch.
9/12/22

Submitted by

Mintu Buragohain

B.Sc 1st semester

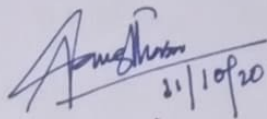
Department - Zoology
18520114

Roll no - ~~28520114~~

Registration - 92205723

CERTIFICATE

This is to certify that Mintu Buragohain the student of Zoology Department, B.Sc 1st Semester has successfully carried out the project work on "EVOLUTIONARY SIGNIFICANCE OF CTENOPHORA" under my guidance and supervisions. It is undertaken as a part of practical syllabus prescribed by Dibrugarh University.


21/10/2022

Signature of Guide
Mrs Pimily Langthase

Zoology Department
Gargaon College
Simaluguri (Assam)


Department of Zoology
GARGAON COLLEGE
Simaluguri

Signature of HOD
Dr. Rina Handique
Head of Zoology
Department
Gargaon College
Simaluguri (Assam)

Sub : Structural organization and nutrition
of Euglena.

Examined
Atkch 9/12/22

Name : Sri Sunny Dutta
Sub : Zoology (C-1)
Roll No : 18520180
Reg No : 52205733
Class : B.Sc 1st Semester

PROJECT REPORT ON

Structural organisation and nutrients of
Paramecium.

Session — 2022-23

Date — 17.10.2022

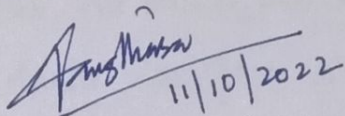
Examined
Apekha
9/12/22

Submitted by
Anamika Gogoi
BSc 1st semester
Department - Zoology
Roll no — 403
185 20189

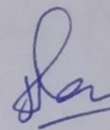
Registration no — S2205628

CERTIFICATE

This is to certify that Anamika Gogoi the student of Zoology Department, B.Sc 1st semester has successfully carried out the Project work entitled "STRUCTURAL ORGANISATION AND NUTRIENTS OF PARAMECIUM" under my guidance and upervisions. It is undertaken as a part of practical syllabus prescribed by Dibrugarh University.



Signature of Guide
Mrs. Primily Langthasa
Zoology Department
Gargaon College
Simaluguri (Assam)



Signature of HOD
Dr. Rina Handique
Head of Department
Zoology Department
Gargaon College
Simaluguri (Assam)

Department of Zoology
GARGAON COLLEGE
Simaluguri

PROJECT REPORT ON

LIFE CYCLE and
PATHOGENICITY of *Taenia solium*

ZOOLOGY PROJECT

SESSION - 2022-23

Submitted to.

Pimidy Langthasa
Assistant Professor
zoology Department

Submitted by -

Name - Ananya Konwar

Class - B.Sc. 1st sem.

Class Roll no - GCB2022227

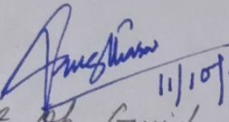
Roll no :- 18520190

Reg. No - 32205629

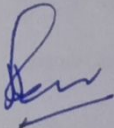
Examined
A. M. Ch.
9/12/22

CERTIFICATE

This is to certify that Ananya Konwar, the student of zoology Department B.Sc. 1st semester has successfully carried out the project work entitled 'Life cycle of *Toxaria solium* and pathogenicity' under my guidance and supervision. It is undertaken as a part of practical syllabus prescribed by Dibrugarh University.


Signature of Guide

Miss. Pimily Langthasa
zoology Department
Gargaon college
Simaluguri (Assam)


Signature of HOD

Dr. Rima Handique
HOD of Department
zoology Department
Gargaon college
Simaluguri (Assam)

Department of Zoology
SARGAON COLLEGE
Simaluguri.

PROJECT

REPORT ON

Life Cycle of
Ascaris Lumbricoides

Session - 2022-23

Submitted by

Anneksha Patore

B.Sc 1st semester

Department Zoology

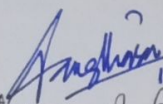
Roll no: - 18520193

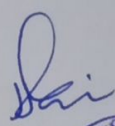
Registration NO: S 2205634

Examined
Atech
9/12/22

CERTIFICATE

This is to certify that Anneksha Patore the student of zoology department B.S.C 1st Semester has successfully carried out The project work entitled "Life cycle of *Ascaris lumbricoides*" under my guidance and supervisions. It is undertaken as a part of practical syllabus prescribed by Dibrugarh University.


Signature of Guide
11/10/2022
Mrs. Pimily Langthasa.
Zoology department
Garegaon college
Simaluguri (Assam)


Signature
Department of Zoology
GAREGAON C. LLEGE
Simaluguri.
Dr. Rina Handique
HOD of department
zoology department
Garegaon College
Simaluguri (Assam)

A PROJECT ON PARASITIC ADAPTATIONS OF HELMINTHS

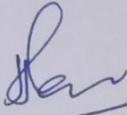
Submitted To
Pimily Langhasa
Assistant Professor
Department of Zoology

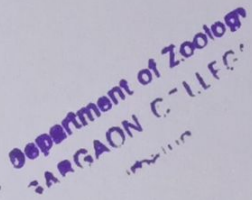
Submitted By
Greetanjali Teli
Class no :- 60
Semester :- 1st semester BSc.
Department :- Zoology
year :- 2022
Roll no :- 18520211
Registration no :- 89205684


Examined
A. Meek
9/2/22

CERTIFICATE

This is to certify that the project is titled as "Parasitic Adaptation in Helminths". This project is submitted by Greetanjali Teli, 1st semester, department of Zoology of Bargaon College in fulfillment of the requirements for the syllabus under Debrajgarh University for the session of 2022-2023.


Dr. Rina Handique
Head of the department
Department of Zoology




Pimiley Langhasa
Assistant Professor
Department of Zoology

11/10/2022

A PROJECT REPORT

On

SPICULES IN SPONGES

Session = 2022-23

Date = 28/10/2022

Submitted by —

Gitasree Jomuli

B.Sc 1st semester

Department Zoology

Class Roll no = GCB2022048

Gargoon Collage

Exam Roll no = 18520212

Registration no = 32205686

Examined

Atul
9/10/22

CERTIFICATE

This is certify that *Gitasree Tamuli* the student of Zoology department, GCB2022048 rollno, B.S.C. 1st semester has successfully carried out the project work entitled "Epicules in Sponges" under my guidance and supervisions. It is under taken as a part of practical by Dibrugarh University.

Amghina
Signature of Guide
11/10/2022

Mrs Pimily Langthasa
Zoology Department
Gargaon Collage
Dimlugarci (Assam)

Sari
Signature of HOD

Dr Rina Handiqui
Head of Department
Zoology Department
Gargaon Collage
Dimlugarci (Assam)

Department of Zoology
GARGAON COLLEGE
Dimlugarci.

PROJECT REPORT ON

PARASITIC ADAPTATIONS IN HELMINTHS

ZOOLOGY PROJECT

SESSION - 2022 - 2023

Submitted to

Pimily Sanghaiya
Assistant Professor
Zoology Department

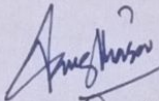
Submitted by

Name - Lojee Kurmi
Class - B.Sc. 1st sem
Roll no - GCB2022062
Registration no - S2205715
Roll No - 18520229

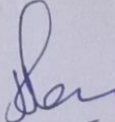
Examined
AMuk
9/12/22

CERTIFICATE

This is to certify that Lojee kurmi the student of zoology Department . B.Sc. 1st semester has successfully carried out the project work entitled " PARASITIC ADAPTATIONS IN HELMINTHS " under my guidance and supervisions . It is undertaken as a part of practical syllabus prescribed by Dibrugarh University .


Signature of Guide

Primiya Langthasa
Assistant Professor
Zoology Department
Gargaon collage
Simaluguri Assam


Signature of HOD

Dr Rima Handique
Head of Department
Zoology Department
Gargaon collage

Department of Zoology
GARGAON COLLEGE
Simaluguri.

PROJECT REPORT ON

"Canal System in Phylum Porifera"

Session — 2022-23

Date — 17.10.22

Submitted by

Lucky Rajkumari.

B.Sc 1st semester

Department Zoology

class Roll no — GCB2022028

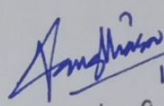
Registration no — 52205716

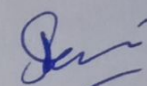
Exam Roll no — 18520230

Examined
Alek
17/10/22

CERTIFICATE

This is to certify that Lucky Rajkumari the student of Zoology Department, B.Sc. 1st semester bearing roll no - GCB2022028 has successfully carried out the Project work entitled "Canal System in Phylum Porifera" under my guidance and supervisions. It is undertaken as a part of practical syllabus prescribed by Dibrugarh University.


11/10/2022
Signature of Guide
Mrs. Pimily Langthasa
Zoology Department
Gargaon College
Simaluguri (Assam)


Department of Zoology
GARGAON COLLEGE
Simaluguri
Signature of HOD
Dr. Rina Handique
Head of Department
Zoology Department
Gargaon College
Simaluguri (Assam).

PROJECT REPORT ON

LIFE CYCLE & PATHOGENESIS OF

Taenia solium

ZOOLOGY PROJECT
SESSION - 2022 - 23

Submitted by

Name - Luna Bonah

Class - B.sc 1st sem

Roll no - GCB2022229

Registration no - S2205717

Roll No - 18520231

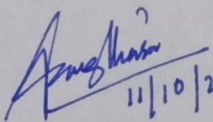
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AMech

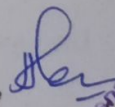
9/12/22

CERTIFICATE

This is to certify that Luna Bomah that student of zoology department B.Sc. 1st semester has successfully carried out the project work entitled "Life cycle and Pathogenesis of Taenia solium" under my guidance and Supervisions. It is undertaken as a part of practical syllabus prescribed by Dibrugarh University.


11/10/2022

Signature of Guide
Miss. Pimily Langthasa
Zoology Department
Gomgaon College
Simaluguri (Assam)


Signature
Department of Zoology
GOMGAON COLLEGE
Simaluguri
Dr. Rita Hamdique
HOD of Department
Zoology Department
Gomgaon College
Simaluguri (Assam)

A PROJECT
REPORT
ON
**STRUCTURAL
ORGANISATION
AND NUTRITION
OF
AMEOBA**

GARGAON COLLEGE

Submitted to -
Pimily Langthasa
Assistant Professor
Department of Zoology

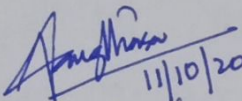
Submitted by -
Manashi Subba
B.Sc 1st Semester
Department of
Zoology

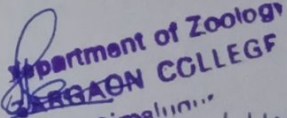
Roll no: 18520233
Year: 2022
Regd No.: S2205722

Examined
Atul/9/17/22

CERTIFICATE

This is to certify that Manashi Subba, the student of Zoology Department, B.S 1st Semester has successfully carried out the Project work entitled "STRUCTURAL ORGANISATION AND NUTRITION OF AMOEBAS" under my guidance and supervisions. It is undertaken as a part of practical prescribed by Dibrugarh University.


11/10/2022
Signature of guide
Mrs. Pimily Langthasa
Zoology Department
Gangaon College
Simulguri (Assam)


Signature of HOD
Dr. Rina Handique
Head of Department
Zoology department
Gangaon College
Simulguri (Assam)

PROJECT REPORT ON METAGENESIS IN OBELIA

ZOOLOGY PROJECT
SESSION - 2022 - 23

Submitted to

Pimily Langthasa
Assistant Professor
Zoology Department

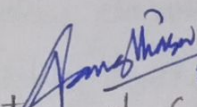
Submitted By

Name: Gayatri Arandhara
Class: B.Sc. 1st semester
Roll No: GCB2022055/18520235
Registration No: SR205724

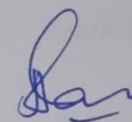
Examined
Atch 9/12/22

CERTIFICATE

This is to certify that Gayatri Arandhara, the student of zoology Department B.S.C 1st semester has successfully carried out the project work entitled "Metagenesis In Obelia" under my guidance and Supervissions. It is undertaken as a part of practical syllabus prescribed by Debrugarh University.


11/10/2022

Signature of Guide
Miss Pimily Langthasa
Zoology Department
Gargaon college
Simaluguri (Assam)


Department of Zoology
GARGAON COLLEGE

Signature of HOD
Dr. Rina Handique
HOD of Department
Zoology Department
Gargaon college
Simaluguri (Assam)



PROJECT REPORT ON
LIFE CYCLE AND PATHOGENICITY OF
PLASMODIUM VIVAX

Submitted To:

Primily Langthasa
Assistant Professor
Department of Zoology.

Submitted by:

Muskan Rahman
B.Sc. 1st Semester
Zoology Department
Roll no. : 176/18520240
Registration No:-
S2205732

Examined
A. Meek
9/12/22

CERTIFICATE

This is to certify that Muskan Rohman the student of Zoology Department, B.Sc. 1st Semester has successfully carried out the project work entitled "Life Cycle and Pathogenicity of Plasmodium Vivax" under my guidance and supervisions. It is under taken as a part of practical syllabus prescribed by Dibrugarh University.

Primily Lanthasa
11/10/2022

Signature of Guide

Primily Lanthasa
Assistant Professor
Zoology Department
Gargaon Collage
Simaluguri (Assam)

Rina Handique
Department of Zoology
GARGAON COLLEGE
Simaluguri

Signature of HOD

Dr. Rina Handique
Head of Department
Zoology Department
Gargaon Collage
Simaluguri (Assam)

PROJECT REPORT ON

"CANAL SYSTEM IN PORIFERA"

Submitted to
Pimily Langthasa
Assistant Professor
Zoology Department

Examined
A. K. Chak
7/2/22

Submitted by
Shikha Chutia
B.Sc 1st Semester
Department Zoology
Roll NO - 18520271
REG. NO - S
S2205788

Certificate

This is to certify that Shikha Chutia, the student of Zoology Department, B.Sc 1st Semester has successfully carried out the project work entitled "CANAL SYSTEM IN PORIFERA" under my guidance and supervisions. It is undertaken as a part of practical syllabus prescribed by Dibrugarh University.

P. Langthasa "10/10/2022"
Signature of Guide
Mrs. Pimily Langthasa
Zoology Department
Gargaon College
Simaluguri (Assam)

R. Handique
Signature of HOD
Dr. Rina Handique
Head of Department
Zoology Department
Gargaon college
Simaluguri (Assam).

Department of Zoology
GARGAON COLLEGE
Simaluguri

PROJECT REPORT ON

Structural Organization
& Nutrition of Euglena

Session - 2022 - 2023

Date - 19/10/2022.

Submitted by

Sneha Samsuuea

B.Sc. 1st Sem.

Dept. of Zoology.

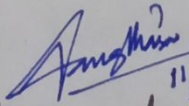
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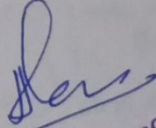
Registration : 82205790.

Examined
Amit
9/10/22

CERTIFICATE

This is to certify that Sneha Semsuwa, the student of Zoology Department, B.Sc. 1st Sem. has successfully carried out the Project work entitled "Structural Organization & Nutrition of *Euglena*" under the guidance and supervision of Mrs. Pimily Langthasa. It is undertaken as a part of the Practical syllabus by Dibrugarh University.


11/10/2022
Signature of Guide
Mrs. Pimily Langthasa
Zoology Dept.
Gargaon College


Signature of HOD
Department of Zoology
GARGAON COLLEGE
Simaluguri.
Dr. Rina Handique
Head of the Dept.
Zoology.
Gargaon College.

PROJECT REPORT ON

Life Cycle Of *Taenia Solium*
And Pathogenecity.
Session- 2022- 23

Submitted by

Sudeshya Mishra

B.Sc 1st Sem

Roll No. ~~2024~~ 18520281

Dept. of Zoology

Registration No:- 52205795

Amech
9/10/22

Certificate

This is to certify that Sudesthya Mircha, the student of zoology department B.S.C 1st semester has successfully carried out the project work entitled "Life Cycle of Taenia solium" under my guidance and supervissions. It is undertaken as a part of practical syllabus prescribed by Dibrugarh University.

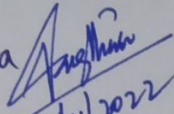
Signature of Guide

Miss Rimely Langthasa

zoology Department

Garoon college

Simaluguri (Assam)


10/11/2022

Signature

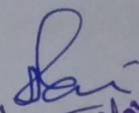
Dr. Lina

HOD of

zoology department

Garoon college

Simaluguri (Assam)


Department of Zoology
GAROON COLLEGE
Simaluguri

PROJECT REPORT

ON

METAGENESIS
IN
OBELIA

ZOOLOGY PROJECT
SESSION - 2022 - 23

Submitted by

Name :- Miss Sunirmala Mishra

Class :- Bsc. 1st Sem

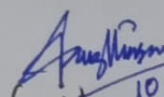
Roll no :- ~~49~~ 18520284

Registration No - 32205798

Examined
AMich
9/12/22

CERTIFICATE

This is to certify that Sumirmala Mirdha, the student of zoology department B.S.C. 1st semester has successfully carried out the project work entitled "Metagenesis in Obelia" under my guidance and supervisions. It is undertaken as a part of practical syllabus prescribed by Dibrugarh University.

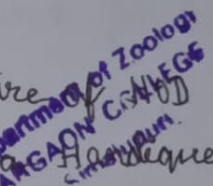
Signature of Guide  10/10/2022

Miss Pimily Langthasa

Zoology Department

Gargaon College

Simaluguri (Assam)

Signature 
Dr. Pooja Handique
Department of Zoology
GARGAON COLLEGE
Simaluguri

HOD of department

Zoology department

Gargaon college

Simaluguri (Assam)

