



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Miss Anubhuti Kashyap (Roll No. 1806330001), student of Department of Zoology, Tripura University has pursued her project entitled "**The neuroendocrine regulation of mammalian testicular damage and protection upon exposure to stress**" and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date: 25.09.2020

Place: Tripura University

(Dr. Shiv Shankar Singh)

Assistant Professor

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Mr. Durbadal Goswami (Roll No. 1806330002), student of Department of Zoology, Tripura University has pursued his project entitled **“Literature review on locomotory structure(s) and mechanism of locomotion in phylum Annelida”** and prepared it under my supervision and guidance.

This project is solely worked on by his to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date: 20.9.20

Place: Tripura University

(Prof. Priyasankar Chaudhuri)

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Miss Bidisha Kalita (Roll No. 1806330003), student of Department of Zoology, Tripura University has pursued her project entitled "**The immunoprotective role of melatonin in diabetic mice**" and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date: 25.09.2020

Place: Tripura University

A handwritten signature in blue ink, appearing to read "Shiv Shankar Singh".

(Dr. Shiv Shankar Singh)

Assistant Professor

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Miss Lisha Debbarma (Roll No. 1806330004), student of Department of Zoology, Tripura University has pursued her project entitled “Study on *Brachionus* sp. (Pallas, 1766) and *Philodina* sp. (Ehrenberg, 1830) of wetland ecosystem of Tripura, India” and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.


21/9/2020

Date:

Place: Tripura University

(Prof. Sukanta Banik)
Department of Zoology
Tripura University
Suryamaninagar, 799022




TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Mr. Subhadip Saha (Roll No. 1806330006), student of Department of Zoology, Tripura University has pursued his project entitled "**Study on *Lepadella* and *Filinia* species of wetland ecosystem of Tripura**" and prepared it under my supervision and guidance.

This project is solely worked on by his to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.


21/9/2020

Date:

Place: Tripura University

(Prof. Sukanta Banik)

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Miss Tuhina Saha (Roll No. 1806330007), student of Department of Zoology, Tripura University has pursued her project entitled **“Diabetes induced liver damage: Melatonin as cure”** and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date: 25.09.2020

Place: Tripura University

(Dr. Shiv Shankar Singh)

Assistant Professor

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Miss Ankita Bhattacharjee (Roll No. 1806330008), student of Department of Zoology, Tripura University has pursued her project entitled **“Review on different exoskeletal structures of vertebrates”** and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date: 20.9.20

Place: Tripura University

A handwritten signature in blue ink, followed by the date "20.09.2020" written in blue ink.

(Prof. Priyasankar Chaudhuri)

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Miss Subhra Das (Roll No. 1806330009), student of Department of Zoology, Tripura University has pursued her project entitled "**Application of vermicompost on sustainable agriculture**" and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date: 20.9.20

Place: Tripura University

PM
20.9.20

(Prof. Priyasankar Chaudhuri)

Department of Zoology

Tripura University

Suryamaninagar, 799022




TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Miss Saindaong Mog (Roll No. 1806330010), student of Department of Zoology, Tripura University has pursued her project entitled “*Study on Trichcerca similis and Keratella tropica of wetland ecosystem of Tripura, India*” and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.


21/9/2020

Date:

Place: Tripura University

(Prof. Sukanta Banik)

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Miss Suravi Das (Roll No. 1806330011), student of Department of Zoology, Tripura University has pursued her project entitled “Study on zooplankton (*Brachionus calcyflorus* and *Macrothrix spinosa*) of wetland ecosystem of Tripura, India” and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date:

Place: Tripura University

SB
21/9/2020

(Prof. Sukanta Banik)

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Mr. Ankur Bhattacharjee (Roll No. 1806330012), student of Department of Zoology, Tripura University has pursued his project entitled “Study on *Keratella testudo* and *Asplanchna sieboldi* species of wetland ecosystem of Tripura” and prepared it under my supervision and guidance.

This project is solely worked on by his to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date:

Place: Tripura University

(Prof. Sukanta Banik)

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE


I, hereby certify that Miss Paramita Majumdar (Roll No. 1806330013), student of Department of Zoology, Tripura University has pursued her project entitled "**Role of glucocorticoids in chronic stress induced depressive behaviour**" and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date: 25.09.2020

Place: Tripura University


25/09/2020
(Dr. Shiv Shankar Singh)

Assistant Professor
Department of Zoology
Tripura University
Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Mr. Sayan Mallik (Roll No. 1806330014), student of Department of Zoology, Tripura University has pursued his project entitled **“Studies of Rotifers of wetland ecosystem of Tripura, India”** and prepared it under my supervision and guidance.

This project is solely worked on by his to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

SB
24/9/2020

Date:

Place: Tripura University

(Prof. Sukanta Banik)

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Mr. Melvin Lanlnunlda Darlong (Roll No. 1806330015), student of Department of Zoology, Tripura University has pursued his project entitled “**Study of *Brachionus divesicornis* and *Keratella tropica* of wetland ecosystem of Agartala, West Tripura, Tripura**” and prepared it under my supervision and guidance.

This project is solely worked on by his to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

SB
21/9/2020

Date:

Place: Tripura University

(Prof. Sukanta Banik)

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Mr. Rizon Debbarma (Roll No. 1806330017), student of Department of Zoology, Tripura University has pursued his project entitled “*Study on Brachionus patulus patulus and Brachionus calciflorus of wetland ecosystem of Amarapur, Gomati, Tripura*” and prepared it under my supervision and guidance.

This project is solely worked on by his to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date:

Place: Tripura University


24/9/2020
(Prof. Sukanta Banik)

Department of Zoology

Tripura University

Suryamaninagar, 799022

Study on *Brachionus patulus patulus* and *Brachionus calciflorus* of wetland ecosystem of Amarapur, Gomati, Tripura



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Miss Pritika Das (Roll No. 1806330018), student of Department of Zoology, Tripura University has pursued her project entitled **“Effects of arsenic toxicity in liver and evaluation of the use of melatonin as a protective substance”** and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date: 25.09.2020

Place: Tripura University

(Dr. Shiv Shankar Singh)

Assistant Professor

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022


GUIDE'S CERTIFICATE

I, hereby certify that Miss Bithika Singha (Roll No. 1806330019), student of Department of Zoology, Tripura University has pursued her project entitled **“Effects of arsenic toxicity in pancreas and evaluation of the use of melatonin as a protective substance”** and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date: 25.09.2020
Place: Tripura University


(Dr. Shiv Shankar Singh)
Assistant Professor
Department of Zoology
Tripura University
Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Miss Tanushree Roy (Roll No. 1806330020), student of Department of Zoology, Tripura University has pursued her project entitled “**A review on vermicomposting**” and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date: 20.9.20

Place: Tripura University


(Prof. Priyasankar Chaudhuri)

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Mr. Swarnandu Das (Roll No. 1806330021), student of Department of Zoology, Tripura University has pursued his project entitled **“Identification of zooplanktons in wetland of Udaipur, Tripura, India with special reference to order Cladocera: Characterization of *Bosmina longirostris* and *Simocephalus expinosus*”** and prepared it under my supervision and guidance.

This project is solely worked on by his to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

SB
21/9/2022

Date:

Place: Tripura University

(Prof. Sukanta Banik)

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Mr. Maradona Debbarma (Roll No. 1806330022), student of Department of Zoology, Tripura University has pursued his project entitled “*Study of Brachionus falcatus and Brachionus rubens of wetland ecosystem of Tulasikhar Khowai, Tripura*” and prepared it under my supervision and guidance.

This project is solely worked on by his to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.


24/9/2020

Date:

Place: Tripura University

(Prof. Sukanta Banik)

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Mr. Josua Marak (Roll No. 1806330023), student of Department of Zoology, Tripura University has pursued his project entitled "**Study of *Brachionus forticula* sp. and *Keratella cochlearis* sp. of wetland area of Gomati, Tripura**" and prepared it under my supervision and guidance.

This project is solely worked on by his to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

SB
21/9/2020

Date:

(Prof. Sukanta Banik)

Place: Tripura University

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Miss Tulika Bhattacharjee (Roll No. 1806330024), student of Department of Zoology, Tripura University has pursued her project entitled **“Review on role of melatonin in protection of lung injuries caused by arsenic in laboratory mice”** and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date: 25.09.2020

Place: Tripura University

A handwritten signature in blue ink, appearing to read "Shiv Shankar Singh".

(Dr. Shiv Shankar Singh)

Assistant Professor

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Miss Sahini Reang (Roll No. 1806330025), student of Department of Zoology, Tripura University has pursued her project entitled "*Brachionus angularis* and *Brachionus quadridentus* species of wetland ecosystem of Tripura and their distribution in Tripura, India" and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

SB
22/9/2020

Date:

Place: Tripura University

(Prof. Sukanta Banik)

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Mr. Susan Shil (Roll No. 1806330026), student of Department of Zoology, Tripura University has pursued his project entitled "A review of literature on morphological changes of RBCs in class Amphibia, Reptilia, Aves and Mammals of vertebral group with evolution" and prepared it under my supervision and guidance.

This project is solely worked on by his to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date: 25.09.2020

Place: Tripura University

A handwritten signature in black ink, appearing to read "Shiv Shankar Singh".

(Dr. Shiv Shankar Singh)

Assistant Professor

Department of Zoology

Tripura University

Suryamaninagar, 799022



TRIPURA UNIVERSITY, SURYAMANINAGAR, 799022

GUIDE'S CERTIFICATE

I, hereby certify that Miss Pratima Debnath (Roll No. 1806330027), student of Department of Zoology, Tripura University has pursued her project entitled “**A review of literature on comparative respiratory system in chordates**” and prepared it under my supervision and guidance.

This project is solely worked on by her to the best of my knowledge.

This project is to be submitted to the university as a part of the curriculum required for the completion of the 4th Semester in Zoology.

Date: 20.9.20

Place: Tripura University


(Prof. Priyasankar Chaudhuri)

Department of Zoology

Tripura University

Suryamaninagar, 799022