

# VIDYASAGAR UNIVERSITY



SWARNAMOYEE JOGENDRA NATH MAHAVIDYALAYA

**SUB :- ZOOLOGY**

**FIELD NOTE BOOK**

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**B.Sc (H) : SEMESTER-III**

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**Registration No-VU211040301**

**SESSION: 2021 - 2022**

**EXAMINED**



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# SWARNAMOYEE JOGENDRANATH MAHAVIDYALAYA

Govt. Aided General Degree College | Estd.: 2014

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## DEPARTMENT OF ZOOLOGY

TO WHOM IT MAY CONCERN



This is to certify that Dibyendu Pramanik Roll 1123152  
No 210006....., Registration No VU211040301 Of 2021-2022 students of B.Sc.  
Semester-III, Zoology (Aquatic Biology, GE-3) of Swarnamoyee Jogendranath  
Mahavidyalaya for the session 2022-2023, submitted his/ her field report entitled as  
A Visit to a marine Bioserve (Digha and  
its surrounding)

Based on field study conducted on 19.12.2022 & 20.12.2022 for partial fulfilment of the  
syllabus prescribed by Vidyasagar University. The report has been prepared under the  
supervision of Miss. Tanushree Das and may be placed before examiner for evaluation.

Bamant 05/01/23

Dr. Ratan Kumar Samanta

Principal

Swarnamoyee Jogendranath Mahavidyalaya  
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T. Das 05.01.23

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## ACKNOWLEDGEMENT

With deep sense of our respect, we would like to express our sincere gratitude to our most respectful teacher Dr. Ratan Kumar Samanta, Dr. Anindya Kisor Bhaumik, Ms. Tanushree Das and Non teaching staff Pradip Kumar Das, Sujam Kumar Majhi. The department of Zoology, Swarnamoyee Jyotindra-nath Mahavidyalaya for organizing and participating the said excursion to Digha and its surrounding.

We are also thankful to the authorities for giving us permission to visit Digha its biological observation under different habitat of animal.

We are also thanks our honourable principal of the college, Dr. Ratan Kumar Samanta for giving us permission to organize such a valuable educational tour.

Dibyendu Pramanik

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## ZOOLOGICAL EXCURSION

Zoological excursion is aimed acquiring knowledge in their own habitat, their life cycle pattern, their behaviour and their interaction. A student not only gain knowledge about the habitat i.e. Marine area in case of our trip but also to have a glance of the diversity of the animal, fauna each in its niche and a greater areas of habitat and in the ecosystem play its important roles. Thus zoological excursion is not only a pleasure trip for us but a learning experience for a student of zoology. It is also a exciting and memorable memory for us.

## IMPORTANCE OF ZOOLOGICAL EXCURSION

"It was a director of education should reduce the time taken by lecture to one third of that time taken at present and make attendance in the field compulsory three hours a day?"

— C. G. Robertson

"The book worm" may have plenty of theoretical knowledge, but all are incomplete and worthless as they lack of power of application.

Therefore, field study is arranged which may be concluded on the "Education without excursion?"

## PLACE OF JOURNEY

- Mandarmani and its surroundings.
- Talsari.
- Digha Mahana.

## DATE OF JOURNEY

19.12.2022 - 20.12.2022

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FIG :- Our Tour Team



## TEAM MEMBERS OF DIGHA EXCURSION

1. Biswajit Das.
2. Sibaprasad Manna.
3. Krishnendu Jana.
4. Soumen Acharya.
5. Tanushree Gayen.
6. Barsha Das.
7. Rinui Khatua.
8. Abhinandan Jana.
9. Dibyendu Pramanik
10. Souvik Das
11. Subhajit Maity.
12. Sangay Giri.
13. Nayanika Jana.
14. Santanu Sasmal.
15. Kartick Jana.

## GUIDENCE OF OUR EXCURSION

### ☒ The Teachers —

1. Dr. Ratan kumar Samanta.
2. Dr. Anindya Kisor Bhaumik.
3. Ms. Tanushree Das.

### ☒ Laboratory Staff members —

1. Pradip kumar Das.
2. Sujan Kumar Majhi.

## TOUR DIARY

Day :- 01

Date :- 19.12.2022

Journey starts from Amdabad to Digha by three car at morning. Arrive at Mandarmani sea beach and observed the specimen. Then we went to hotel. After launch we went to Talsari Sea Beach. Then return back to hotel at New Digha.



FIG :- Asterias sp.

Day :- 02

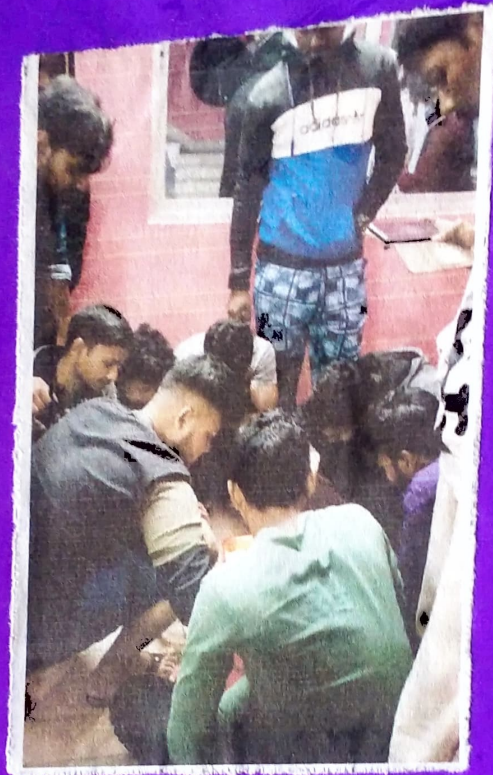
Date :- 20.12.2022

Visit to Digha Mohona and fish market at morning we collected some specimen. After breakfast checkout hotel and perform their proceed for Amdabad by car.

Airride Amdabad at 3:30 pm and excursion end.



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Separation of Specimen

# MANDARMANI

We went to Mandarmani at 9 am on 19.12.2022. It is located on the shores of the Bay of Bengal. This beach is 13 km long. Mandarmani sea beach surrounded by red crabs, and jelly fish, shell-fish, squids and tiny sea fishes.

## METHODOLOGY

During sample collections and observation, type of the substrate, abundance, habit and habitats of individual species were noted. specimens were preserved in 10% formalin after proper narcotization and attempts were made to identify all the collected specimens upto species level whenever possible.

## SURVEY REPORT

Sl No.	Scientific name	Local Name	Phylum
1	<u>Aurelia</u> sp.	Jelly fish	Cnidaria
2	<u>Asterias</u> sp.	Star fish/sea star	Echinodermata

## TALSARI BEACH

We went to Talsari Beach at 3:30 p.m. is constitute apart of the alluvium coast the Subarnarekha delta plain located northeastern side of Balasore district of Odisha and hardly 10-15 km away from Digha. Geographical ~~co-~~ ordination of Talsari is bounded in between  $21^{\circ}35'48''$  Northern latitude and wide beach. The estuary of the river Subarnarekha is 0.5 km to 1.5 km wide several types of marine habitats are found in this small area (2.5 sq. km. only) different types of final composition are found here in district zonation.

### ▣ METHODOLOGY

During sample collections and observation, type of the substrate, abundance habit and habitats in individual species were noted. Specimens were preserved in 70% alcohol after proper narcotization and attempts were made to identify all the collected specimens up to species level whenever possible.

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# SURVEY REPORT

1. Common Jelly fish (Aurelia sp.)
2. Star fish (Asterias sp.)
3. Sea anemone (Metridium sp.)

SL No.	scientific Name	Local Name	Phylum
1.	<u>Aurelia</u> sp.	Common Jelly fish	Cnidaria
2.	<u>Asterias</u> sp.	Sea star / star fish.	Echinodermata
3.	<u>Metridium</u> sp.	Sea anemone	Cnidaria

## DIGHA MOHONA

We went to Digha Mohona at morning time. Mohona means estuary in Bengali. Digha Mohona is located very close to Digha beach. Actually it is one end of the Digha beach. Along the fish market there are stalls selling dry fish (shutki) and various types of fishes like as Detui, pomfret, Bombay duck, sting ray, shark, squid, cattle fish, octopus, ilish, crab shrimp.

### METHODOLOGY:

During sample collections and observation, type of the substrate, abundance, habit, and habitats of individual species were noted. Specimens were preserved in 70% alcohol and the collected specimens up to species level whenever possible.

### SURVEY REPORT

List of collected specimens in Digha Mohona

1. Sting-Ray (Trigon sp.)
2. Shark (scoliodon sp.)
3. Eel (Annulla sp.)
4. Bombay duck (Harpodon neherus.)



FIG :- Dry fish



FIG :- Penaeus monodon



FIG :- Loligo sp.



Fig :- Trigon sp.



FIG :- Sepia sp.

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FIG :- Crab



FIG :- Lobsterster



FIG:- Tenuulosa sp.

5. Tiger prawn (Penaeus monodon)
6. Lobster.
7. Octopus.
8. Sepia.
9. Loligo.
10. Sea crab.
11. Hilsa fish.
12. Pomfret.
13. Lates calcarifer.

Sl No.	Scientific Name	Local Name	Phylum
1.	<u>Trigon</u> sp.	String ray	Chordata
2.	<u>Scoliodon</u> sp.	Dog fish/shark	Chordata
3.	<u>Anquilla</u> sp.	Eel fish	Chordata
4.	<u>Harpodon nehereus</u>	Bombay Duck	Chordata
5.	<u>Penaeus monodon</u>	Tiger prawn	Arthropoda
6.	<u>Sepia</u> sp.	Cuttle fish	Mollusca
7.	<u>Loligs</u> sp.	Squid	Mollusca
8.	<u>Octopus</u> sp.	Devil fish	Mollusca
9.	<u>Lates calcarifer</u>	Detui	Chordata
10.	<u>Pampus</u> sp.	Silver Pomfret	Chordata
11)	<u>Tenualosa illisha</u>	Ilish fish	Chordata.

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# HAPPY RETURNS

The tour was extremely fruitful joyous one. Sketch type educational tour always boost us to gain plenty of knowledge with practical views. The tour was certainly blessed a tool to serve the varied species containing "Digha Mohana and Mandarmani and Talsari." It was unique experience. We all returned with heart although acquiring a diversified knowledge admixture with holy minute education from marine habitat.

We are all grateful to our respected teachers without whose kind guidance and help the tour would not have been made possible.

T. DAS  
19.01.28

Examined  
Dr  
EXAMINED