

# VIDYASAGAR UNIVERSITY



~~SWARNAMOYEE JOGENDRA NATH MAHAVIDYALAYA~~

**SUB :- ZOOLOGY**

**FILD NOTE BOOK**

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

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**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 Tanushree Gouen Roll 1123152  
No 210018, Registration No NU211040313 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 it's  
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.

Bamanta 05/01/23

Dr. Ratan Kumar Samanta  
Principal

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## ACKNOWLEDGEMENT

With a deep sense of our respect, we would like to express our gratitude to our most respectful teacher Dr. Ratan Kumar Samanta, Dr. Anindya Kison Bhoumik, Ms. Tanushree Das and Non-teaching staff Pradip Kumar Das, Swarn Kumar Majhi. The department of Zoology, Swarnamoyee Jogendra-nath Mahavidyalaya for organizing and participating in the said excursion to Digha and its surroundings.

We are also thankful to the authorities for giving us permission to visit Digha for biological observation under different habitats of animals.

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

Tanushree Gayen

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## ZOOLOGICAL EXCURSION

Zoological excursion is aimed acquiring know 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 found each in its own niche and a greater areas of habitat and in the ecosystem play it 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. Roberison

"The book worm" may have plenty of theoretical knowledge, but all are incomplete and worthless as they lack of the power of application. Therefore field study is arranged which may be concluded on the Education with out excursion.

## PLACE OF JOURNEY

- Mandarmoni and its surroundings .
- Talsari
- Digha Mohona

## DATE OF JOURNEY

19.12.2022 — 20.12.2022



FIG 8 :- Our Tour Team



## TEAM MEMBERS OF DIGHA EXCURSION

1. BiswaJit Das .
2. Sibaprasad Manna
3. Krishnendu Jana
4. Souman Acharya
5. Tanushree Gayen
6. Barsha Das
7. Rinki khatua
8. Abhinandan Jana
9. Dibyendu Pramanik
10. Sowik Das
11. Subhajit Maity
12. SanJoy Giri
13. Nayanika Jana
14. Santanu Sasmal
15. Kartick Jana

## GUIDENCE OF OUR EXCURSION

### ■ The Teachers —

1. Dr. Ratan Kumar Samanta
2. Dr. Anindya Kison Bhowmik
3. Ms. Tanushree Das

### ■ Laboratory staff members —

1. Pradip Kumar Das
2. Sujan Kumar Majhi

## TOUR DIARY

Day - 01

Date - 19.12.22

Journey starts from Amdabad to Digha by ~~the~~ car at morning. Arrive at Mandarmoni sea beach and observed the specimen. Then we went to hotel. After lunch, we went to Talsari sea beach. Then return back to hotel at New Digha.



FIG :- Aurelia sp.

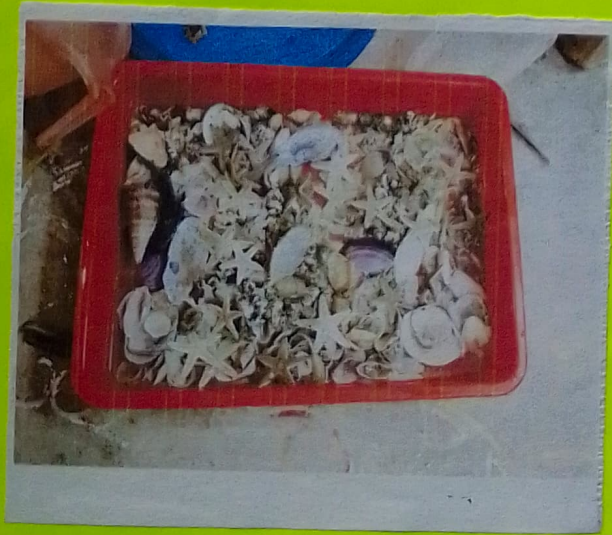


FIG :- Asterias sp.

Day - 02

Date - 20.12.22

Visit to Digha Mohona and Fish Market at morning and we collected some specimen. After breakfast. Check out hotel and proform their procead for Amdabad by car.

Arrive Amdabad at 3.30 p.m and excursion end.

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## TALSARI BEACH

We went to Talsari beach at 3:00 PM is constitute apart of the alluvium coast the subarnarekha delta plain located at northeastern side of Balasore district of odisha and hardly 10-15km 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 faunal composition are found here in distinct zonation.

### ■ 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 after proper narcotization and attempts were made to indentify all the collected specimens up to species level whenever possible.

## SURVEY REPORT

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

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



Separation of specimen



# MANDARMONI

We went to Mandarmoni at 9 a.m on 19.12.22. It is located on the shores of the Bay of Bengal. This beach is 13km long. Mandarmoni sea beach surrounded by red corals and Jellyfish, 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 ~~not~~ preserved in 70% Alcohol or in 10% formalin after proper narcotization and attempts were made to identify all the collected specimens up to species level whenever possible.

## SURVEY REPORT

No	Scientific name	Local name	phylum
1.	<u>Aurelia</u> sp.	Jelly fish	Cnidaria
2.	<u>Asterias</u> sp.	Starfish/sea star	Echinodermata

## 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 vetki, pomfret, Bombay duck, Eel, sting ray, shark, squid, cattle fish, octopus, ilish carb, 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.

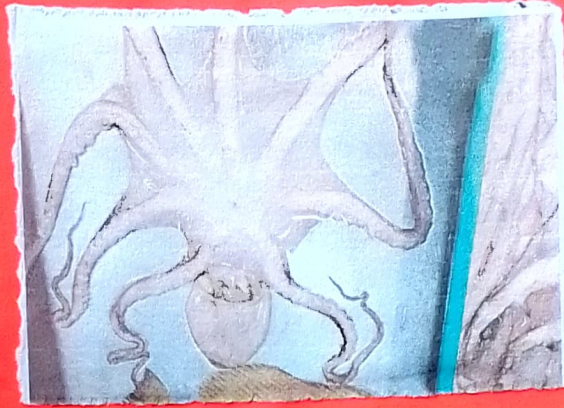


FIG :- Octopus sp.



FIG :- Tenuulosa sp.

EXAMINED



FIG :- Pampus sp.



FIG :- Loligo sp.



FIG :- Trigon sp.



FIG :- Sepia sp.



FIG :- Macrobrachium · osenberry

EXAMINED



FIG :- Crab



FIG :- Lobster

EXAMINED



FIG :- Dry fish

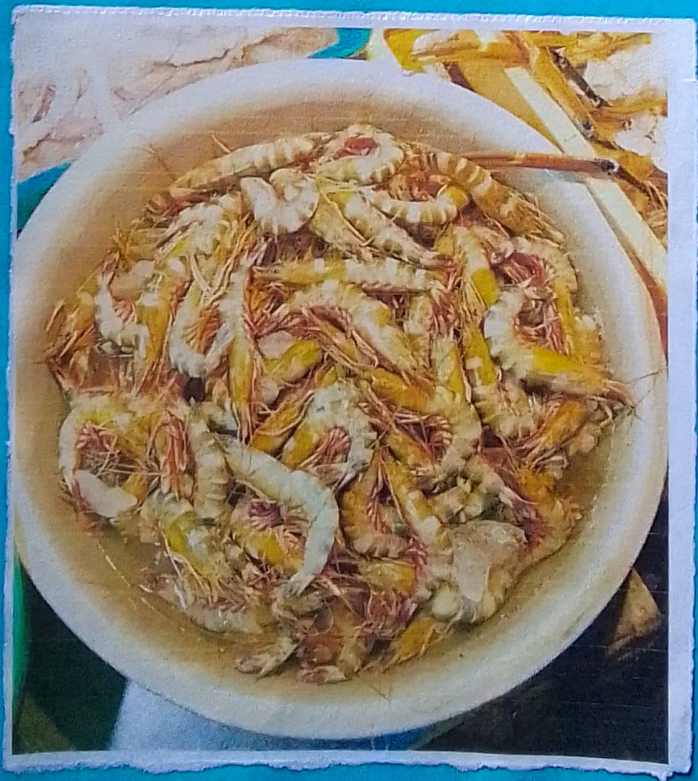


FIG :- Penaeus monodon



## SURVEY REPORT

List of collected specimens in Digba Mohona

1. Sting-Ray (Trigon sp.)
2. Shark (Scoliodon sp.)
3. Eel (Anuilla sp.)
4. Bombay duck (Harpodon nehereus)
5. Tiger prawn (Penaeus monodon)
6. Lobster.
7. Octopus
8. Spia
9. Loligo
10. Sea crab
11. Hilsa fish
12. Pamfret
13. Lotus calcarifer.

Sl. No.	Scientific name	Local name	phylum
1.	<u>Trigon</u> sp.	String ray	Chordata
2.	<u>Scoliodon</u> sp.	Dogfish/Shark	Chordata
3.	<u>Anquilla</u> sp.	Eel fish	Chordata
4.	<u>Harpodon</u> <u>neherens</u>	Bombay duck	Chordata
5.	<u>Penaeus</u> <u>monodon</u>	Tiger prawn	Arthropoda
6.	<u>Sepia</u> sp.	Cuttle fish	Mollusca
7.	<u>Loligo</u> sp.	Squid	Mollusca
8.	<u>Octopus</u> sp.	Devil fish	Mollusca
9.	<u>Lates</u> <u>calcarifer</u>	Vetki	Chordata
10.	<u>Pampus</u> sp.	Silver pomfret	Chordata
11.	<u>Tenulosa</u> <u>ilisha</u>	Ilish fish	Chordata

~~EXAMINED~~  
EXAMINED

## HAPPY RETURNES

The tour was extremely fruitful Joyous one. Such type of 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 Mohona and Mandarmani and Talsoni." It was unique experiance .We all returned with hearts although, acquiring a diversified knowledge admixture with haly minute education from marine habitat.

We are all greatful to our respected teachers with out whose kind guidance and help the tour would not have been made possible.

T.DAS  
19.01.23

Examined  
EXAMINED