

“ Sheel, Sharir, Adhyayan ”
Aundh Shikshan Mandal, Aundh



Raja Shripatrao Bhagawantrao
Mahavidyalaya, Aundh.
(Satara)

Experiential Learning

B.Sc. Part 2

Subject: Zoology

2018-2019

RAJA SHRIPATRAO BHAGWANTRAO MAHAVIDYALAY
AUNDH (SATARA).



DEPARTMENT OF ZOOLOGY

STUDY TOUR REPORT 2019-20

Introduction :-

The purpose of the Educational trip was to provide students practical and theoretical experience of field work. The B. Sc. II Zoology students visited Malvan for annual educational tour in 2019-20. The tour offers a rare opportunity for the student to learn natural habitat of the Animals in the field.

Objectives of the study tour :-

- To study the marine animals in their natural habitat.
- To visit place of biological interest.
- To study aspects of applied zoology.
- To study the inter relationship between the animals and environment.
- To create interest, curiosity, in students.

Analysis of study tour :-

As per syllabus of Shivaji University Kolhapur for B.Sc.II we visit to marine water ecosystem of Malvan.

Day on 28 Jan. and 29 Jan. our Zoology department arrange educational tour for students of B. Sc part II .Prof. Pol S. H. ,Prof. Mulla.A.A. and students. Tour gives us such opportunity of observing and studying different animals and their habits in their habitat i.e. their natural home.

We observe and study the fishes and marine animals malvan-sindhudurg . The habits like swimming group behavior , alertness are seen in this tour . We also study some fishes , and marine animals which are caught by local fisherman. Some molluscs like Pila globosa bivalves. Sepia are also present on marginal area of waterbody. some arthropods and like crab, prawn, lobstr are also observed. Total 40 students visited at Malvan in 2019-20.



Outcomes of study tour :-

- Students learn from observation and experience of field work.
- Students observe natural habitat of birds, reptilian and amphibian animals.
- Student develop skill regarding organization, management, decision making and problem solving
- Students observe the birds migrated in search of food and reproduction.
- Students also observe different types of Fishes.

Tour Incharge
Mukherjee

I/C PRINCIPAL
Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)

Study Tour Malavan 2019-20
zoology B.Sc.II



sr.no.	name
1	Inamdar Shubham Shrikant
2	Shinde Shraddha Dayanand
3	Jagtap Pooja Vinod
4	Jadhav Dhanshri Danaji
5	Jadhav Chaitanya Jitendra
6	Bagal Priti Tanaji
7	Gharge Pratiksha Bhausaheb
8	Phadtare Arti Dilip
9	Nikam Komal Ashok
10	Dabademane Maya Dhanaji
11	Yewle Shital Ananda
12	Bhosale Suraj Ramchandra
13	Ubale Rushikesh Mahadev
14	Sarnobat Swapnil Manohar
15	Chavan Sharad Gangaram
16	Gurav Tushar Sidhanath
17	Ingle Shivam Ramesh
18	Dalvi Swapnil Vikas
19	Patole Sunil Hanmant
20	Bhise Sangram Madhukar
21	Jadhav Suraj Subhash
22	Mane Kajal Tanaji
23	Thorat Tejas Dattatrya
24	Jadhav Pratik Suresh
25	Gaikwad Aditya Santosh
26	Gharpade Amruta Jayvant
27	Deshmukha Sanchita Chandrakant
28	Kulkarni Sudesh Sunil
29	Kulkarni Adesh Anil
30	Bagal Raju Shankar
31	Ingale Vishal Dinkar
32	Thorat Dhiraj Ramchandra
33	Pawar Priyanka Balkrishna
34	Lohar Gauri Umesh
35	Suryavanshi Rutuja Ramdas
36	Pawar Vidya
37	Gharge Ashish Hanmant
38	Dheshmukha Revati
39	Ingale Asha Suresh
40	Shinde Sayali Sanjay

Tour Incharge
Mukherjee

Chandani
I/C PRINCIPAL
Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)

PRN No- 2018055087



॥ शील-शरीर-अध्ययन ॥

RAJA SHRIPATRAO BHAGWANTRAO MAHAVIDYALAYA AUNDH

Department Of ZOOLOGY

CERTIFICATE OF ZOOLOGY TOUR REPORT

This is certify that

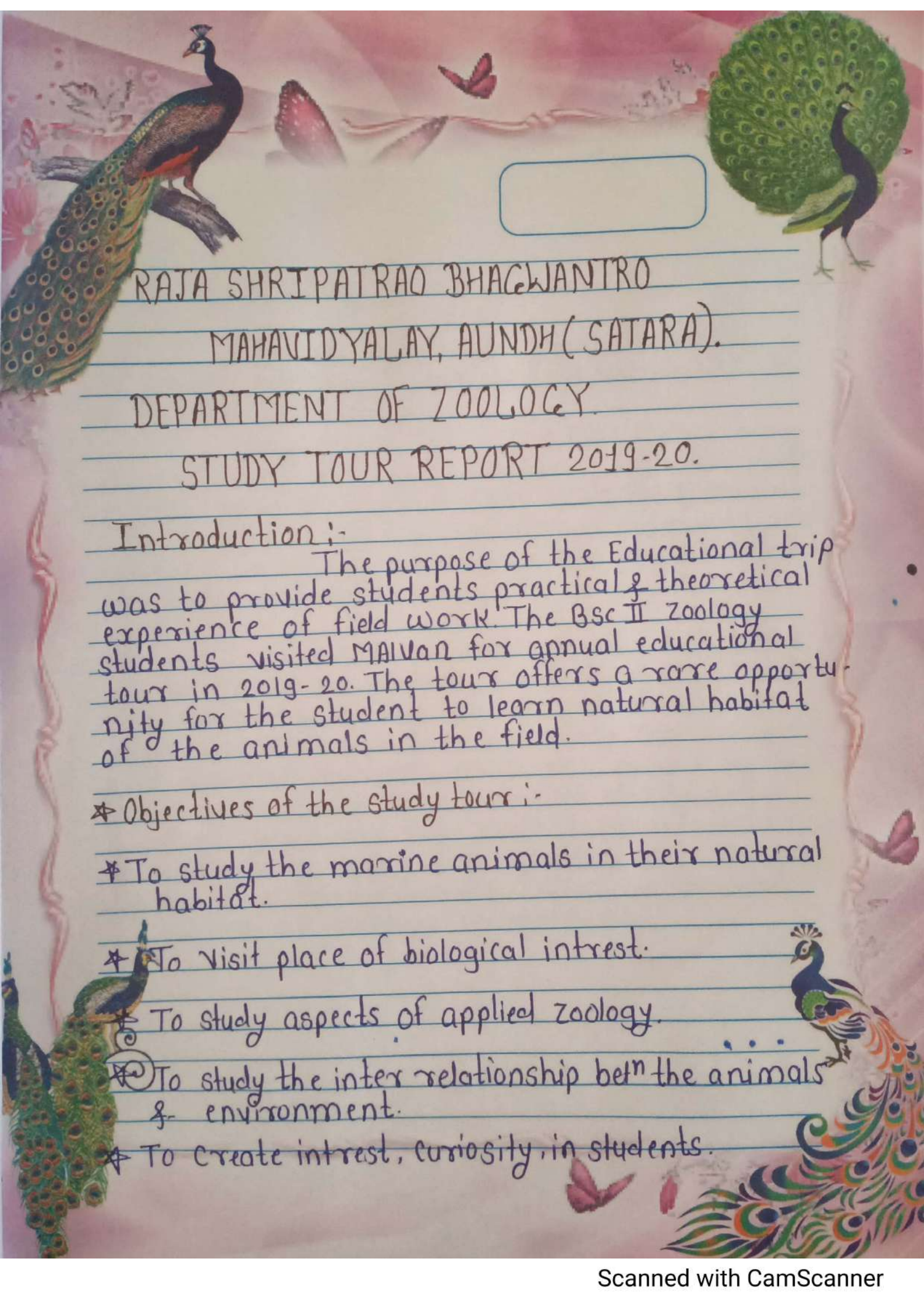
Mr/miss Sarnobat Swapnil Manohar has

Satisfactorily complete the necessary course in practical zoology for the b.sc part II as prescribed by Shivaji university Kolhapur, and this report represent his /her bonafied work in the year 2019-20

Teachear In charge

examiner

head of department



RAJA SHRIPATRAO BHAGWANTRO
MAHAVIDYALAY, AUNDH (SATARA).
DEPARTMENT OF ZOOLOGY.
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* Objectives of the study tour :-

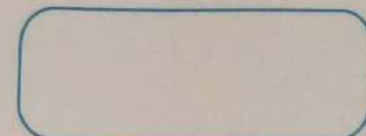


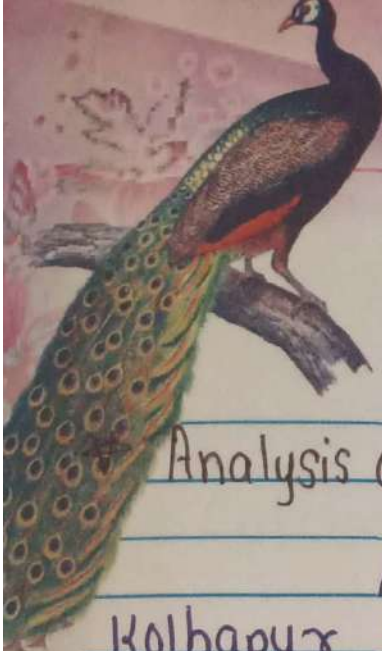
* To study the marine animals in their natural habitat.

* To visit place of biological interest.

* To study aspects of applied zoology.

* To study the inter relationship betⁿ the animals & environment.

* To create interest, curiosity, in students.






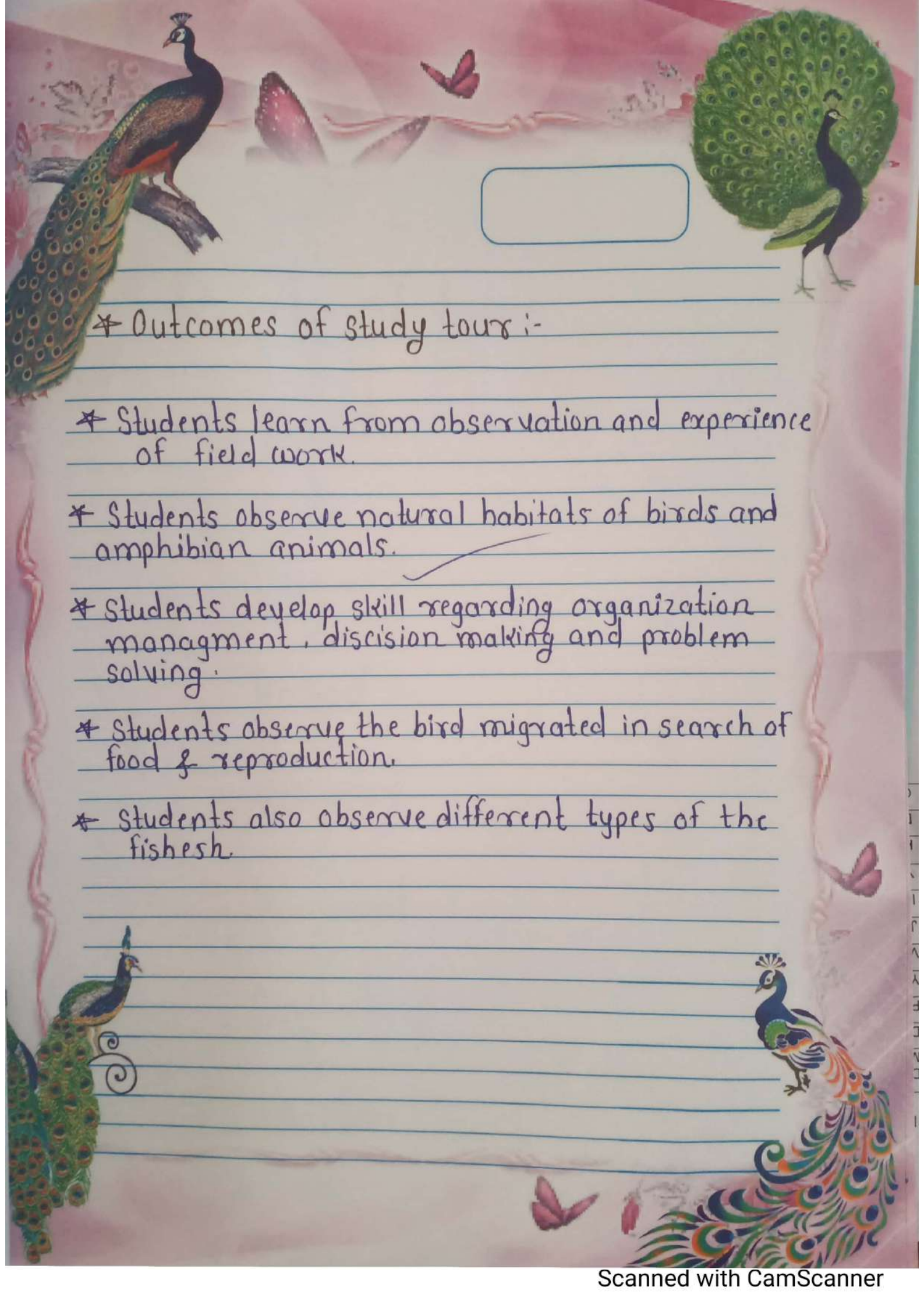
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✦ Outcomes of study tour :-

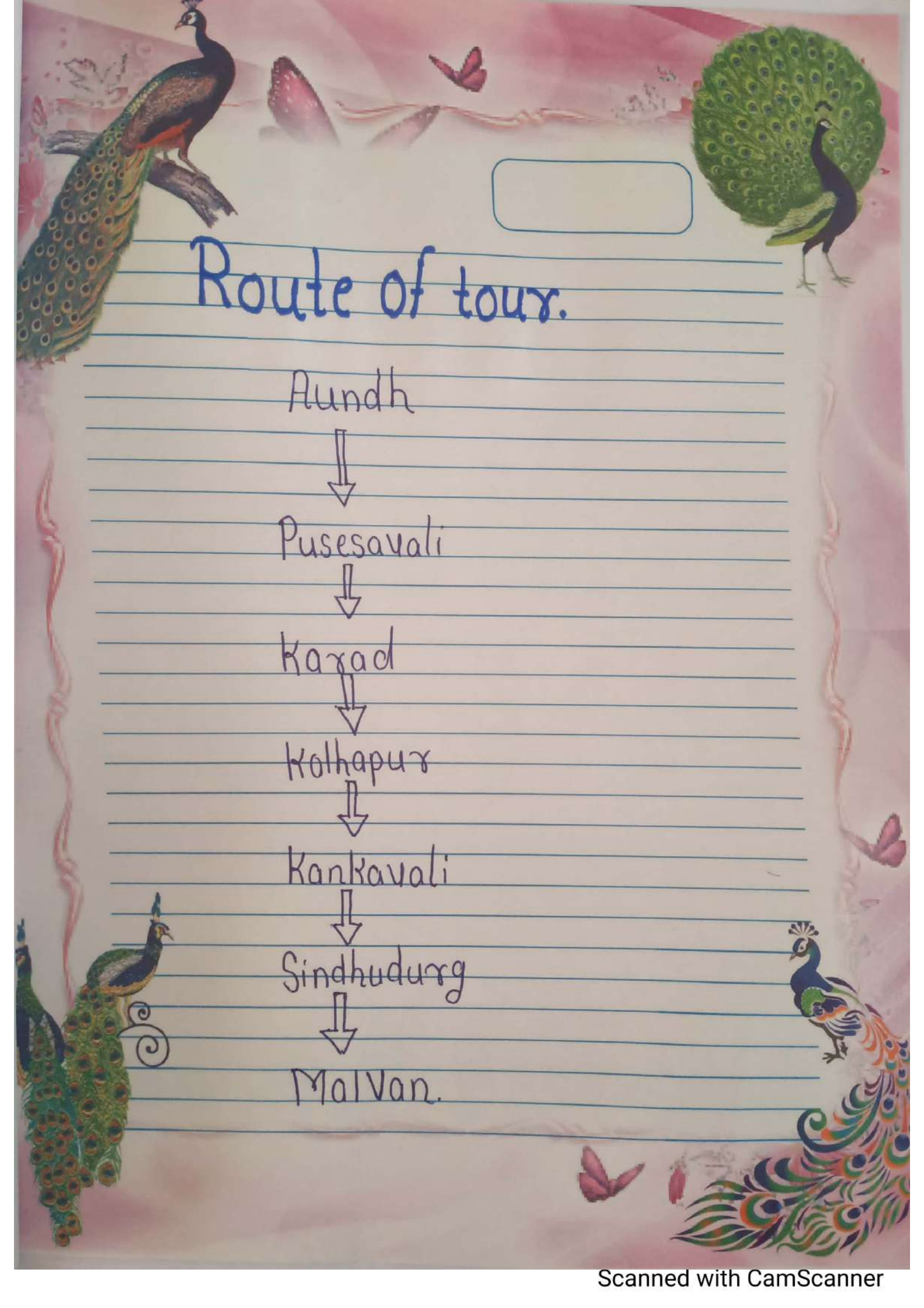
✦ Students learn from observation and experience of field work.

✦ Students observe natural habitats of birds and amphibian animals.

✦ Students develop skill regarding organization management, decision making and problem solving.

✦ Students observe the bird migrated in search of food & reproduction.

✦ Students also observe different types of the fishesh.



Route of tour.

Aundh



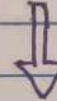
Pusesavali



Kaxad



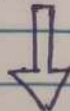
Kolhapur



Kankavali



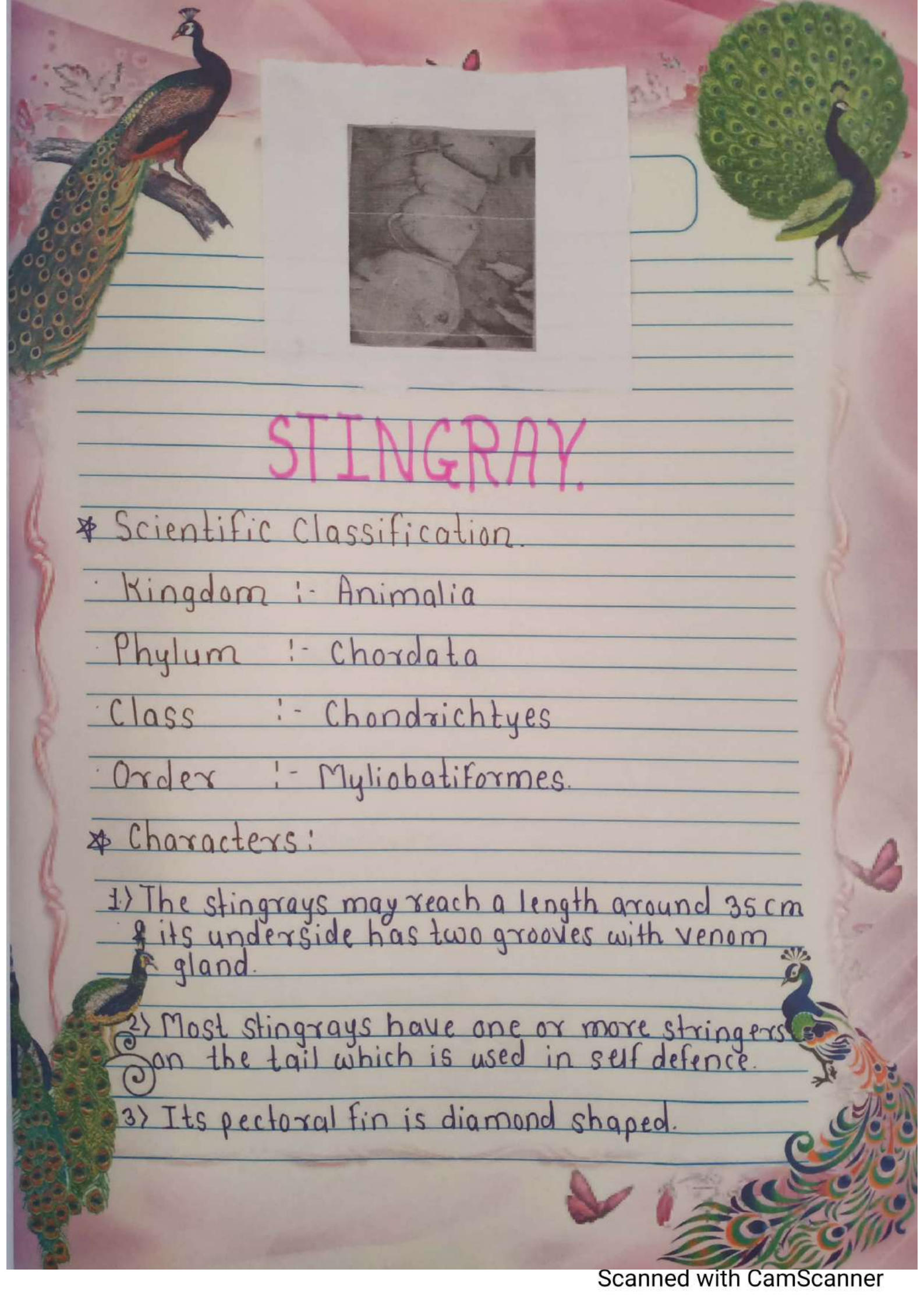
Sindhudurg



Malvan.

VISIT TO MALAYAN BEACH





STINGRAY.

* Scientific Classification.

· Kingdom :- Animalia

· Phylum :- Chordata

· Class :- Chondrichthyes

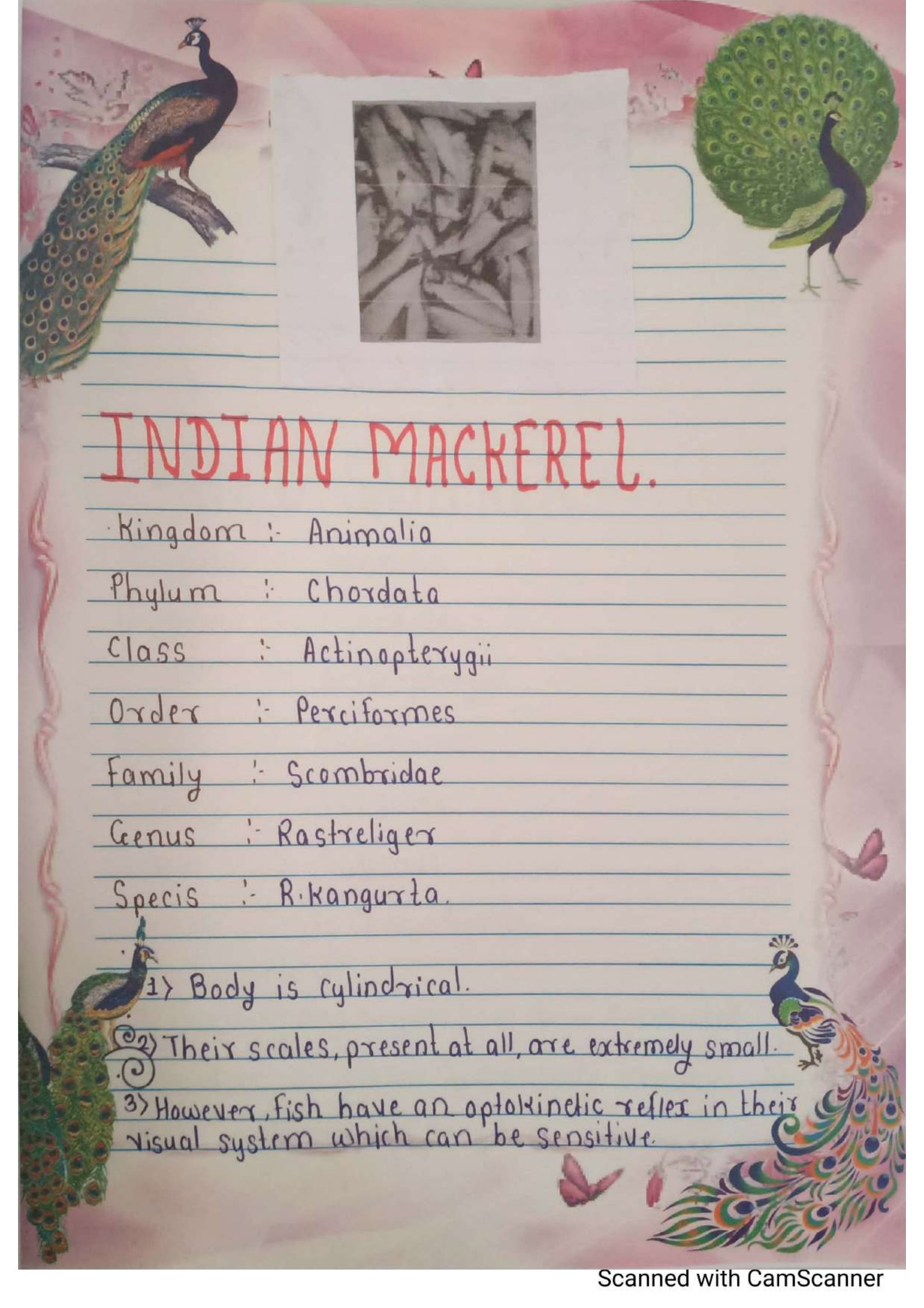
· Order :- Myliobatiformes.

* Characters:

1) The stingrays may reach a length around 35 cm & its underside has two grooves with venom gland.

2) Most stingrays have one or more stringers on the tail which is used in self defence.

3) Its pectoral fin is diamond shaped.



INDIAN MACKEREL.

Kingdom :- Animalia

Phylum :- Chordata

Class :- Actinopterygii

Order :- Perciformes

Family :- Scombridae




Genus :- Rastreliger

Species :- R. kankurta.

1) Body is cylindrical.

2) Their scales, present at all, are extremely small.

3) However, fish have an optokinetic reflex in their visual system which can be sensitive.



* RED SNAPPER *

Kingdom :- Animalia

Phylum :- Chordata

Class :- Actinopterygii

Order :- Perciformes

Family :- Lutjanidae

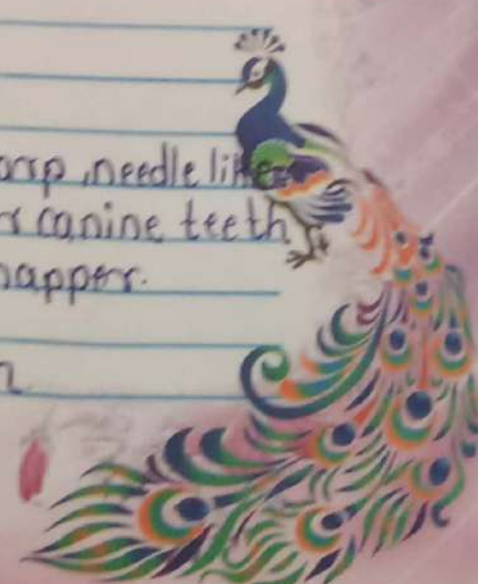

Genus :- Lutjanus

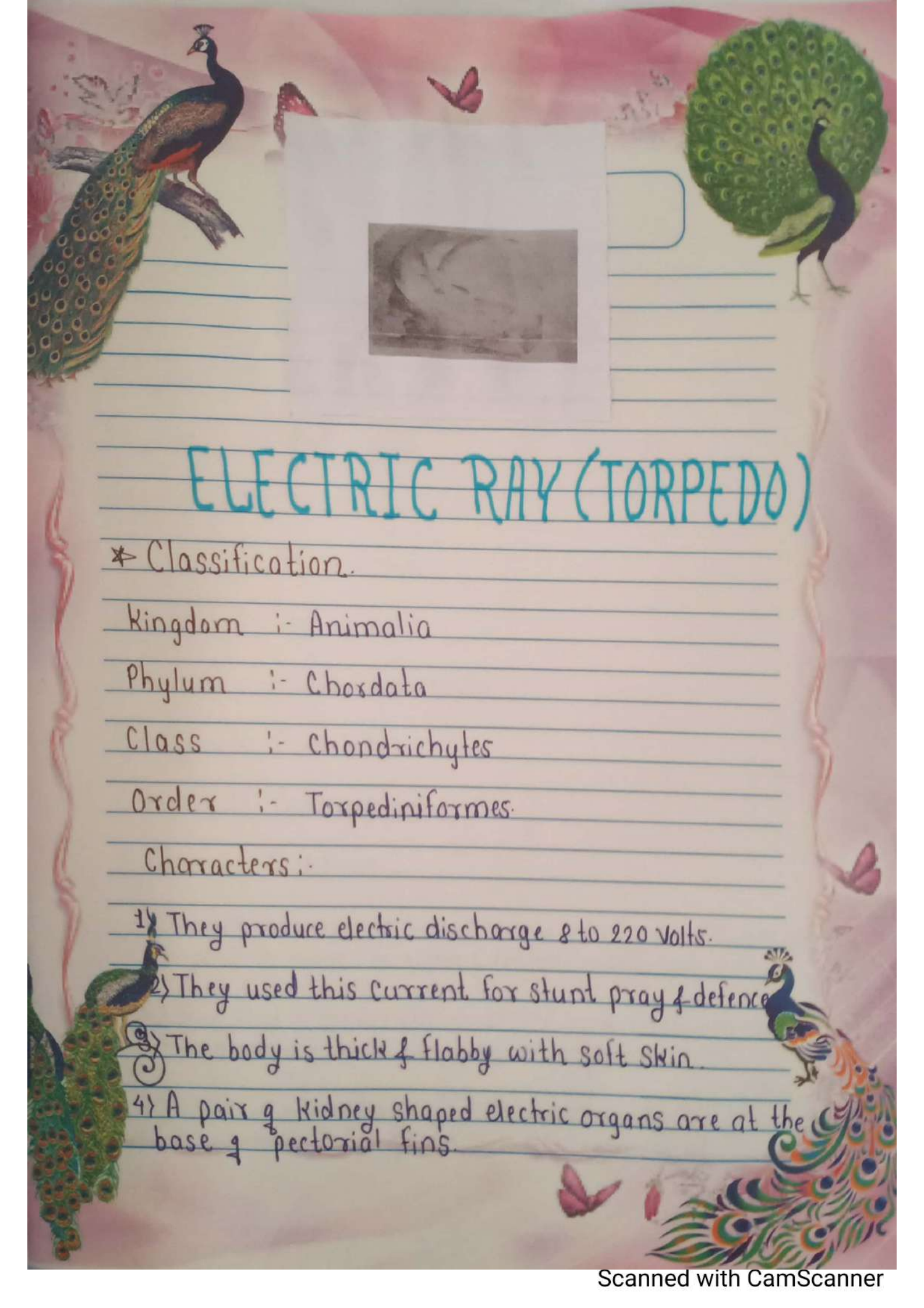
Species :- L. Compechanus.

* Characters.

1) Northern Red snappers have short, sharp, needle like teeth, but they lack the prominent upper canine teeth found on the mutton & mangrove snapper.

2) The common adult length is 60 cm.





ELECTRIC RAY (TORPEDO)

* Classification.

Kingdom :- Animalia

Phylum :- Chordata

Class :- Chondrichytes

Order :- Torpediniformes.

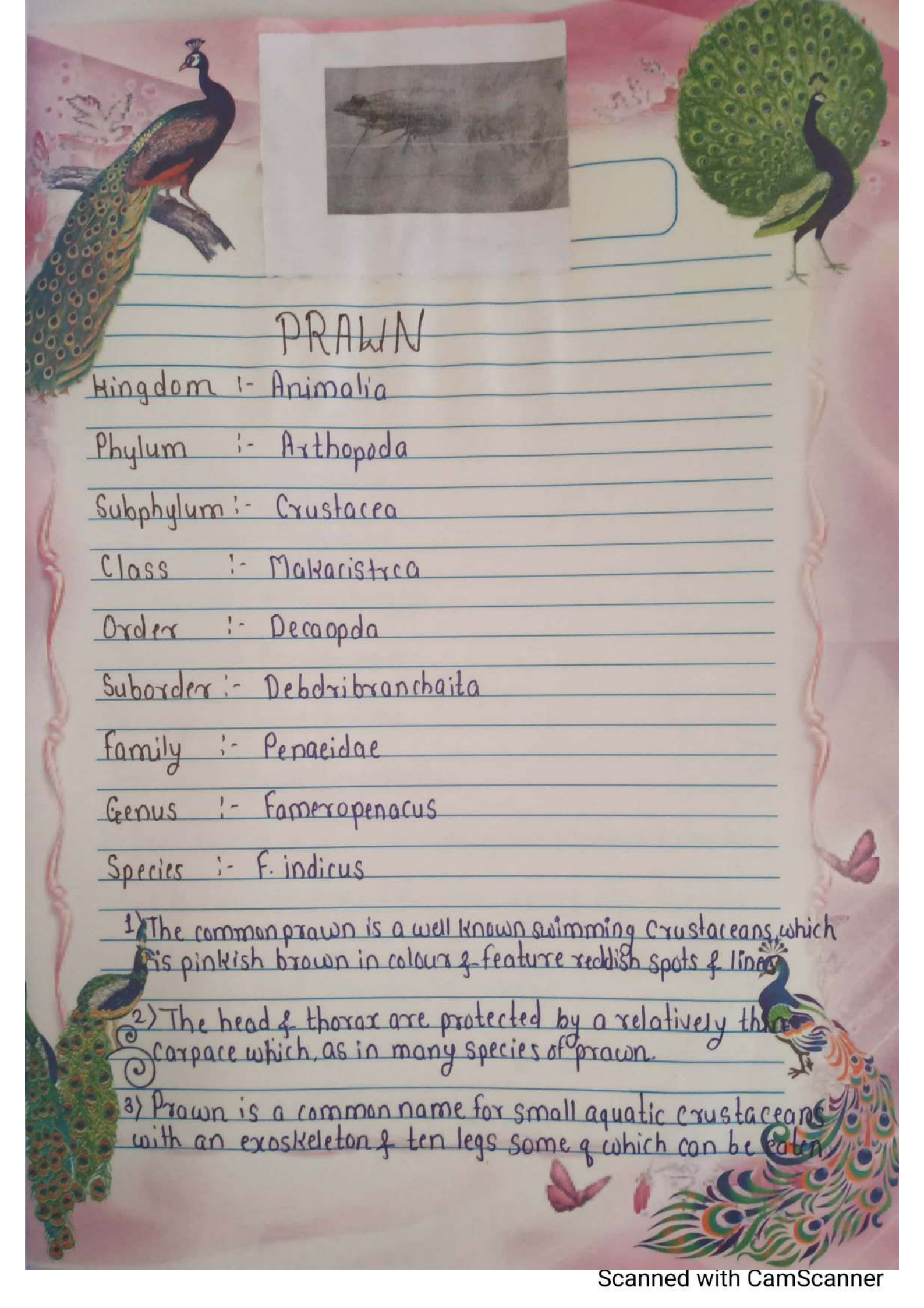
Characters :-

1) They produce electric discharge 8 to 220 volts.

2) They used this current for stunt pray & defence.

3) The body is thick & flabby with soft skin.

4) A pair of kidney shaped electric organs are at the base of pectorial fins.



PRAWN

Kingdom :- Animalia

Phylum :- Arthropoda

Subphylum :- Crustacea

Class :- Malacostraca

Order :- Decapoda

Suborder :- Debdribranchaita

Family :- Penaeidae

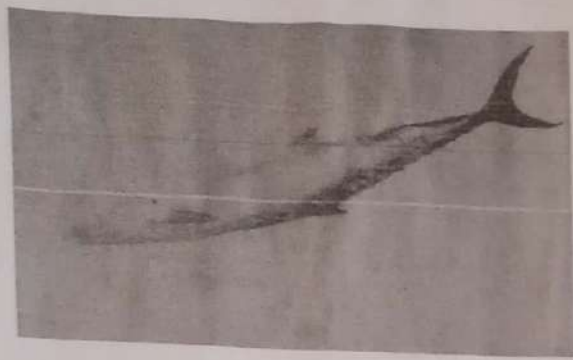
Genus :- Fameropenacus

Species :- F. indicus

1) The common prawn is a well known swimming Crustaceans, which is pinkish brown in colour & feature reddish spots & lines.

2) The head & thorax are protected by a relatively thick carapace which, as in many species of prawn.

3) Prawn is a common name for small aquatic crustaceans with an exoskeleton & ten legs some of which can be eaten.



SEER FISH (Surmai)

Kingdom :- Animalia

Phylum :- Chordata

Class :- Actinopterygii

Order :- Perciformes

Family :- Scombridae

Genus :- Scomberomorus.

1) Seer fish is a sea fish among the mackerel variety of fishes.

2) It is found in around the India ocean & adjoining seas.

3) It is known by various names such as Surmai in Marathi, Hindi & Urdu, Viswan in Konkani.

4) It is a popular gamefish growing up to 45 kg.

5) In addition to being cooked & eaten when fresh, it is also used to make fish pickle, usually eaten as a condiment with rice.

ZOOLOGY

STUDY

TOUR

REPORT

" Sheel, Sharir, Adhyayan "



Aundh Shikshan Mandal, Aundh

Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh

'B' Accredited

Department of Zoology

CERTIFICATE

Exam no.

Date:-

This is to certify that she / He Inamdar Shubham Shrikant has satisfactorily completed the submission as per required in Zoology course prescribed by Shivaji University, Kolhapur for BSc.II Zoology practical examination under my supervision in the year 2019-20.

Teacher in charge

Head

HEAD
Department of ZOOLOGY
R. B. M. Aundh,

Examiner

**BAL
GANESH**



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Cham's
IKON
Symbol of Excellence

**BAL
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Chimp's
IKON
Symbology of Success

**BAL
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- * Students also observe different type of fishes.



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Cham's
IKON
SCHOOL OF SCHOLARS



Page No.

Date :

Route of tour

Aundh
↓
Pusesawali
↓
Karad
↓
Kolhapur
↓
Kankavali
↓
Sindhudurg
↓
Malvan

colors

॥ श्रीमंत योगी ॥

**BAL
GANESH**



Stingray

Scientific classification

Kingdom :- Animalia
Phylum :- Chordata
Class :- Chondrichthyes
Order :- Myliobatiformes

Characters :-

1) The stingrays may reach a length around 35 cm (14 in) & its underside has two grooves with venom gland.

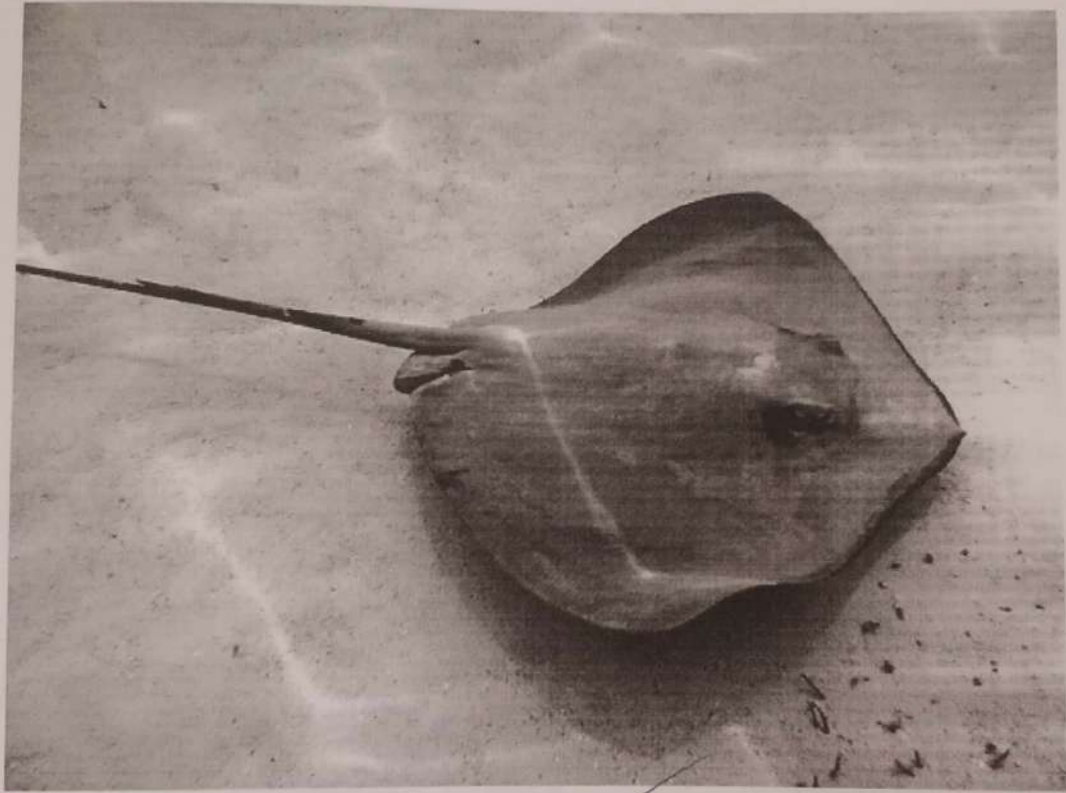
2) Most stingrays have one or more stingers on the tail which is used in self-defence.

3) Its pectoral fin is diamond shaped.



**BAL
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Champs
IKON
SCHOOL OF SCIENCE



Stingray

BAL
GANESH



Indian Mackerel

Classification :-

Kingdom	:-	Animalia
Phylum	:-	Chordata
Class	:-	Actinopterygii
Order	:-	Perciformes
Family	:-	Scombridae
Genus	:-	Rastrelliger
Species	:-	R. Kanagurta

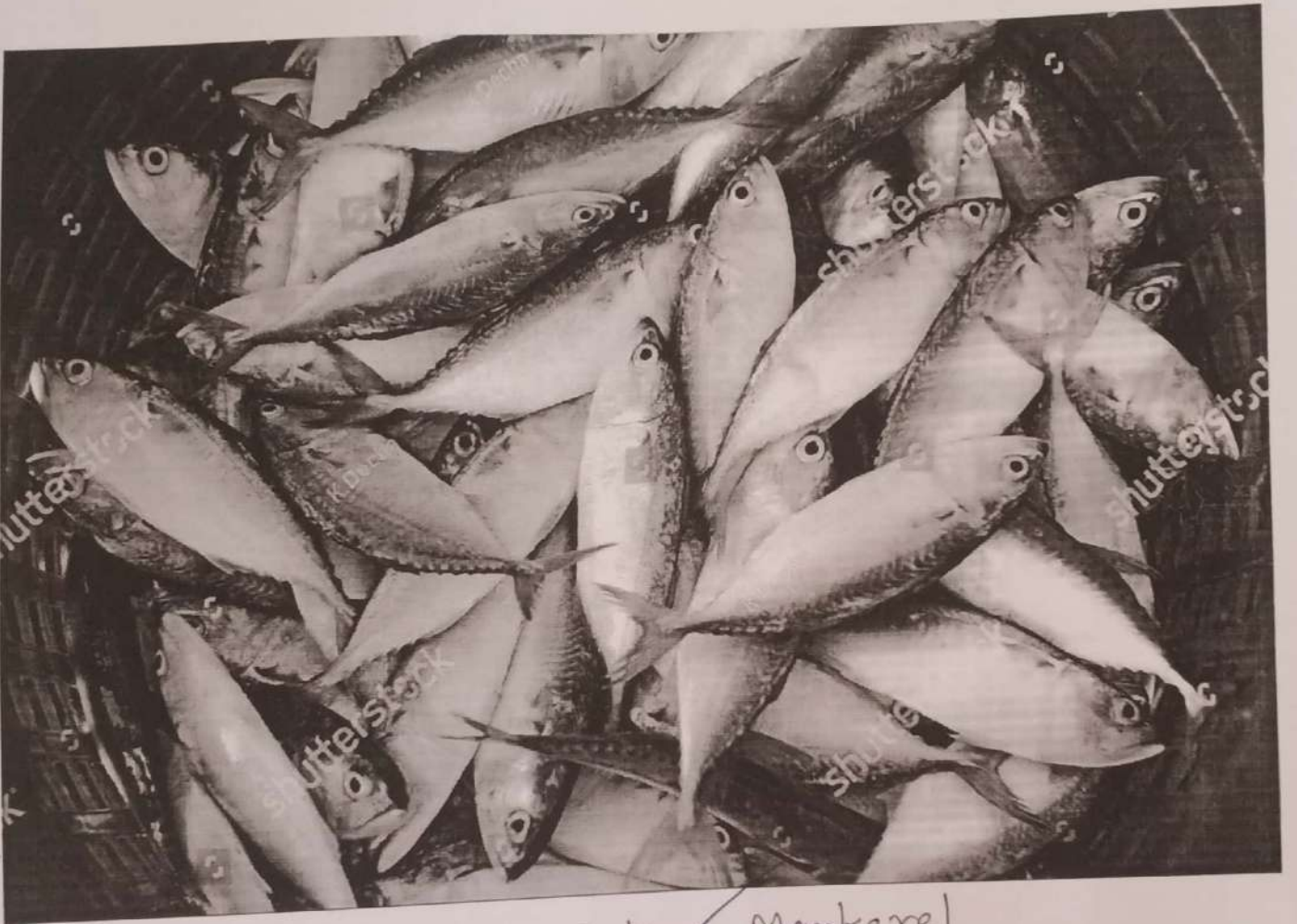
Characters :-

- i) Body is cylindrical
- ii) Their scales, present at all, are extremely small.
- iii) However, fish have an optokinetic reflex in their visual systems which to can be sensitive.



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Cham's
IKON
REMARKET SURVIVOR



Indian Markereel

**BAL
GANESH**



Electric Ray (Torpedo)

Scientific Classification :-

Kingdom :- Animalia

Phylum :- Chordata

Class :- Chondrichthyes

Order :- Torpediniforms

Characteristics :-

i) They produce electric discharge 8 to 220 volts.

ii) They used this current for stunt pray & defence.

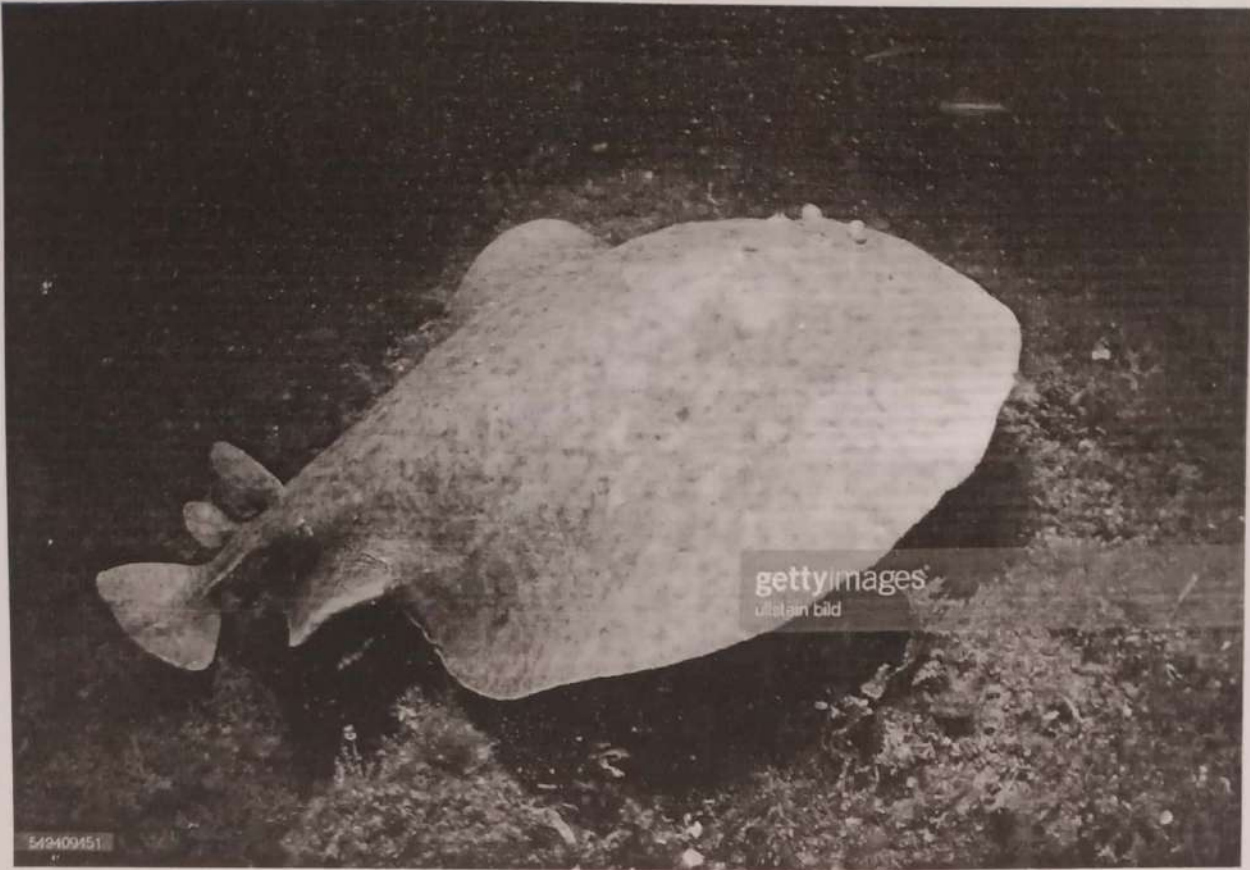
iii) The body is thick & flabby with soft skin.

iv) A pair of kidney shaped electric organs are at the base of pectorial fins.



**BAL
GANESH**

Champ's
IKON
Saviour of Scholars



Electric ray

**BAL
GANESH**



Red Snapper

Classification :-

Kingdom :- Animalia
Phylum :- Chordata
Class :- Actinopterygii
Order :- Perciformes
Family :- Lutjanidae
Genus :- Lutjanus
Species :- L. Campechanus.

Characters :-

i) Northern Red snapper have short, sharp, needle like teeth, but they lack the prominent upper canine teeth found on the mutton & mangrove snapper.

ii) The common adult length is 60 cm.



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GANESH**

Champ's
IKON
SCHOOL OF SCHOLARS



Red Snapper



Seer Fish (surmai)

Classification :-

Kingdom	:-	Animalia
Phylum	:-	Chordata
Class	:-	Actinopterygii
Order	:-	Perciformes
Family	:-	Scombridae
Genus	:-	Scomberomorus
Species	:-	S. guttatus

Characters :-

- i) Seer fish is a sea fish among the mackerel variety of fishes.
- ii) It is found in around the Indian ocean & adjoining seas.
- iii) It is known as various names such as 'surmai' in Marathi, Hindi & Urdu. 'Viswan' In Konkani.

iv) It is a popular gamefish, growing up to 45 kg.

v) In addition to being cooked & eaten when fresh, it is also used to make fish pickle.





Prawn

Classification :-

Kingdom	:-	Animalia
Phylum	:-	Arthropoda
Subphylum	:-	Crustacea
Class	:-	Makacistraca
Order	:-	Decapoda
Suborder	:-	Debdribranchaita
Family	:-	Penacidae
Genus	:-	Fanneropenaeus

Characters :-

i) The common prawn is a well known swimming crustacean, which is pinkish brown in colour & features reddish spots & lines.

ii) The head & thorax are protected by a relatively thin carapace which, as in many species of prawn.

iii) Prawn is a common name for small aquatic crustacean with an exoskeleton & ten legs, some of which can be eaten.