


DEPARTMENT OF ZOOLOGY

A Brief Activity Report on Ethological Field Study on Behavioural Activities of Water Strider at Subhash Sarovar Lake, Beliaghata, Kolkata, West Bengal, India



ESTD. 1881

Department of Zoology

CITY COLLEGE

Affiliated to the University of Calcutta
102/1, Raja Rammohan Sarani, Kolkata - 700009
Phone: 033 2350 1565, Office : 033 2360 7463
E-mail: principal.citycollege@gmail.com
Website: www.citycollegekolkata.org
GST No. : 19CALC00619D1DE

Date : 26.04.2023

Notice

All students of 6th Semester Zoology Honours Course (CBCS) are hereby notified that an Educational tour to Subhash Sarovar, Kolkata, will be held on 28th April, 2023, under the guidance of Dr. Supriti Sarkar, Dr. Debasish Karmakar and Dr. Arkadeep Mitra.

Reporting Time

The students must report by 11.00 AM in front of the Main gate of Subhash Sarovar, Kolkata on 28th April, 2023.

LIST OF ITEMS TO BE TAKEN

1. College Id-Card
2. Cap
3. Binocular
4. Camera
5. Notebook, Pen and Pencils
6. Water-bottle

Silet prasad Chatteropadhyay
Principal
City College
Kolkata -09
26/04/2023
Principal
CITY COLLEGE
KOLKATA

Supriti Sarkar
26/4/23
Head
Dept. of Zoology
City College
Kolkata -09
Head, Department of Zoology
City College, Kolkata-700009
Kolkata -09

Attendance Register			
ZOCA Semester VI			
Field Trip to Subhash Sarovar, Kolkata			
27.04.23			
Sl. No.	Name of Students	College Roll No.	Signature
1	Sounak Bera	201001	Sounak Bera
2	Aritra Bhattacharya	201003	Aritra Bhattacharya
3	Gourav Sen Gupta	201008	Gourav Sen Gupta
4	Subhamoy Bhattacharjee	201009	Subhamoy Bhattacharjee
5	Abhishek Dutta	201012	Abhishek Dutta
6	Anirban Mukherjee	201014	Anirban Mukherjee
7	Arindam Mudi	201015	Arindam Mudi
8	Bidesh Dey Kunda	201016	Bidesh Dey Kunda
9	Jaydeep Saha	201020	Jaydeep Saha
10	Sayan Dutta	201022	Sayan Dutta
11	Pritam Mondal	201023	Pritam Mondal
12	Sayan Bhattacharya	201025	Sayan Bhattacharya
13	Ashmit Rai	201026	Ashmit Rai
14	Nilendu Dey	201027	Nilendu Dey
15	Subhajit Dev	201028	Subhajit Dev
16	Bikki Yadav	201029	(ABSENT)
17	Debjoyti Das	201030	Debjoyti Das
18	Naini Mukherjee	201103	Naini Mukherjee
19	Pratiksha Chakraborty	201105	Pratiksha Chakraborty
20	Shrabani Pal	201106	Shrabani Pal
21	Snigdha Kayal	201107	Snigdha Kayal
22	Soumyashree Bairagi	201108	Soumyashree Bairagi
23	Moumita Roy	201109	Moumita Roy
24	Shikha Chakraborty	201110	Shikha Chakraborty
25	Lopamudra Saha	201111	Lopamudra Saha
26	Shrabanti Pal	201113	Shrabanti Pal
27	Anousa Roj	201115	Anousa Roj
28	Tanushree Mondal	201116	Tanushree Mondal
29	Ananya Sen Gupta	201117	Ananya Sen Gupta
30	Disha Saha	201118	Disha Saha
31	Priika Dey	201119	Priika Dey
32	Sayani Bharti	201120	Sayani Bharti

Total no. of Students attended = (31)

Ashmit Rai
27/04/23

✦ **Date of Visit:**

Day 1: 28/04/2023 (Friday) – Mid-day Period (NOON) from 11:00 AM to 01:00 PM

Day 2: 03/05/2023 (Wednesday) – Early-day Period (MORNING) 08:00 AM to 10:00 AM

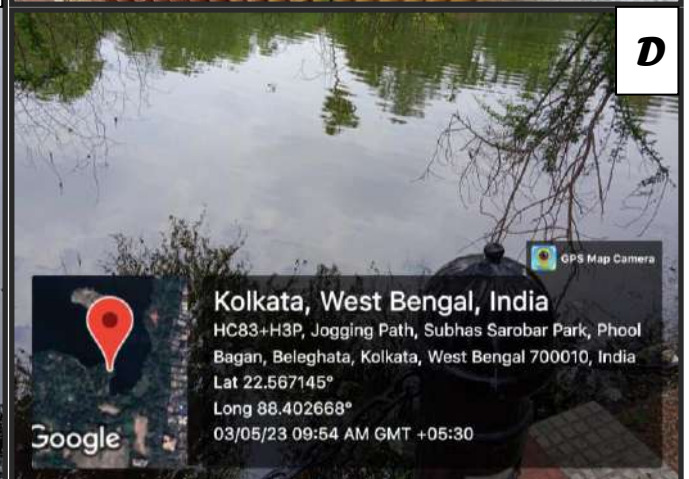
Day 3: 12/05/2023 (Friday) – Late-day Period (EVENING) 04:30 PM to 06:30 PM

- ✦ **Place of Visit:** “Subhash Sarovar” Lake, Beliaghata,
Kolkata, West Bengal, India
- ✦ **Under the Guidance of:** Dr Supriti Sarkar, Associate Professor in
Zoology, City College, Kolkata
- Dr Debasish Karmakar, Assistant Professor
in Zoology, City College, Kolkata
- Dr Arkadeep Mitra, Assistant Professor in
Zoology, City College, Kolkata
- ✦ **No. of Participants:** 31 (Semester – VI, Zoology Honours)

Summary

Field studies of animals help to understand the complexities and causes of animal behaviour. Wild animals interact with their physical surroundings and the biological world while breeding, eating, and moving within their habitat. Although some behavioural studies are conducted in laboratories or zoos, many of the behaviours that animals exhibit in the wild are closely interconnected with the plants and animals around them and can only be observed during field studies. Field studies of animal behaviour have the practical value of increasing research attitude amongst the students/scholars/teachers/scientists understanding of how to conserve threatened and endangered species, as well as how to control pest species. Water striders (also known as water skippers or pond skaters) are relatively common insects that live on the surface film of lakes, ponds, streams even some species are thriving on seas and oceans too. They are easily distinguished by their ability to skim over the surface of the water. This insect differs from many other aquatic insects in that adult water striders are primarily wingless and the few that do have wings are reluctant to fly. Their lives on the surface of water make them easy for even a young child to observe. While they superficially resemble spiders, they are actually insects, members of the family Gerridae, under the order Hemiptera of class Insecta. Water striders' legs are covered in thousands of microscopic hairs scored with tiny grooves. These grooves trap air, increasing water resistance of the water striders' legs and overall buoyancy of the insect. The water skipper's legs are so buoyant they can support fifteen times the insect's weight without sinking. Even in a rainstorm, or in waves, the strider stays afloat. The strider's legs do more than repel water; they are also configured to allow efficient and rapid movement across the surface. This fascinating and extraordinary life sustenance attitude of this trivial creature instigated the inquisition to study their behavioural attributes in the nearby water body, i.e. Subhash Sarovar, as much as possible, by the team in a very little piece of time from the academic curricula.

Animal Behaviour and Chronobiology Lab, ZOOA-DSE(B)-6-1-P		
Full Marks 50	60 Hours	2 Credits
List of Practical		
<ol style="list-style-type: none"> 1. To study nests and nesting habits of the birds and social insects. 2. To study the behavioural responses of wood lice to dry and humid conditions(demonstration only). 3. To study geotaxis behaviour in earthworm. 4. To study the phototaxis behaviour in insect larvae. 5. Visit to Forest/ Wild life Sanctuary/Biodiversity Park/Zoological Park to study behavioural activities of animals and prepare a short report. 6. Study of circadian functions in humans (daily eating, sleep and temperature patterns). 		



Geo-tagged Images at Subhash Sarovar [A. & B. Students are Estimating Various Water Parameters at 'EVENING'; C. Clumping of Water Striders was Observed on the Surface Water of the Lake under the Shed of a Huge Tree on the Bank of the Lake at 'NOON'; D. A few Number of Water Striders was Observed on the Surface of the Lake far apart from the Shed of the Tree on the Bank of the Lake at 'MORNING']

