A FIELD REPORT

ON

THE BOTANICAL STUDY TOUR AT SINGDA DAM

Submitted To

The Department of Botany, YK College, Wangjing

In partial fulfilment for the requirements of the 2nd Semester of BSc Degree Course under Manipur University

Submitted by

Name: ELANGBAM MISON SINGH

Class B Se 11 Roll no. 9104235

Regd. No. 19880037 of 2019

Y.K. COLLEGE, WANGJING 2020

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- I. Certificate
- II. Acknowledgement
- III. Introduction
- IV. The study tour in brief
- V. List of specimens collected from the site
- VI. Conclusion

CERTIFICATE

This is to certify that Mr./Ms £ MISON SINGH bearing MU Roll No. 9104235 and Regd. No. 19880037 of 2019 BSc II Sem of Botany Department took part in the Botanical Study tour at Singda Dam held on 15/03/2020. organised by the Department of Botany, Y.K. College, Wangjing.

Davier

The field report submitted is a bonafide field research worked.

Teacher -in - Charge

Huo

/ Head

Department of Botany Y.K. College, Wangling

Date

Place: Wangjing

ACKNOWLEDGEMENT

I express my sincere gratitude first of all to Dr. E. Maniton Singh, Assistant Professor, Department of Botany for his overall guidance and supervision in course of the field work from the beginning up to the end and as well as his painstaking help during the preparation of this report.

I also express my heartfelt thanks to Dr. Sushma Ph. Head, Department of Botany, YK College, Wangjing for her guidance and necessary facilities given to us to arrange the study tour.

Finally but not the least, I am also thankful to all my class mates and all those who rendered their support while undertaking this work.

Name: & Mison Singh.

Class BSe 17 Roll no. 9104235

Regd. No. 19880037 of 2019

INTRODUCTION

Botanical study tour is of great significance in the study of Botany. Studies of theories and Practical courses in the classroom and laboratory are mechanical and stero-typed in case of Botanist in absence field observation because life is composed of flora and fauna. Things becomes clearer and meaningful. When the fauna discussed as per syllabus of B.Sc. are actually seen in their own environment. The laboratory or demonstration materials of frequently we see coming out of cans or jars or bottles or dry stuffs are all from some particular places of the

sotanical study tour is improved to all the student in he field of flora set fauna of that place. It also gives us the topographical background of those area which have been visited thereby making us to understand fully habitat and their relationship to their environment.

Finally, through own visit to Singda Dam, we can see and observed about different places and flora of sceneries beauty and can be established communicating with different people of different places and mode of the Such an exchange between us and other people with strengthen has knowledge of unity. So we have to participate all such study tour.

THE STUDY TOUR IN BRIEF

We the Botany student had conducted a study tour at Single Dam to see the natural vegetation of the area. 40 students went to Singla Dam. The geographical situation of Singla Dam is lat. 23°41' to 25°41'N and long 93°60' to 94°48' and 160 m. high above the sea levels. We hared thus and left the College at 8 a.m. We arrived there at 10.00 a m. It is far away 14 km. from Imphal and 41 km. from our College

In this place different kind of ilors are found. We took snap of different flora of different place. Mainly more than 40 different were coirected from the hill slope.

Most of our student collected different plant for Laboratory experiment. We have—launch there at 12.30 p.m. then we take rest for an hour, then turn back for home at 2 p.m.

LIST OF SPECIMENS COLLECTED FROM THE SITE WITH THEIR FAMILIES.

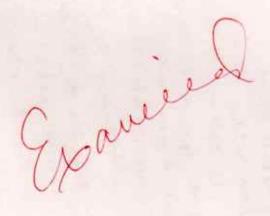
A number of terrestrial and aquatic plants belonging to different families were observed. They were collected and brought to the inboratory. Some of them were stitched on the herbarium sheets and some are in collecting bottles depending upon their type. The name with their families are listed below:

SI.No.	Name of the species	Families
1.	Spyrogyra species	*Chlorophyceas
2.	Netella species	Chlorophyceae
3 .	Polyporus species	Basidiemycetes
4.	Marchantia apecies	Marchantiaceae
5 .	Anthoceros species	Anthocerotae
6 .	Polytrichum species	Polytrichaceae
7.	Equisetum arvense	Equisetaceae **
8.	Pinus Keysia	Pinaceae
9.	Adjentum coudetum	Pteridacese
10.	Gnaphalium species	Asteraceae
11.	Sonchus brachgotes	Asteraceae
12.	Artemisia vulgaris	Asteraceae
13.	Phragmites karke	Poaceas
14.	Bambussa species	Poscese
15.	Phyllanthus amblica	Euphorbiaceae
16.	Parids roxburghii	Mirnosaceae
17.	Grewie microcos	Teliaceae
18.	Wehlendle grandis	
19.	Jotropa curcus	Euphorbieceae
20.	Eupatorium burmanicum	Asteraceae

CONCLUSION

Taxonomic observation on the local vegetation helps in understanding the nature of vegetation of the particular area. It gives an idea of the range of distribution of species, phylogeny and also the flowering and fruiting time.

To acquire the practical knowledge and to understand the implicit and explicit parts of taxonomical study, field study of plants in their natural habitat is must. The practical knowledge acquired through direct observation and physical participation has provided a good opportunity of variety of theoretical explanation given in books and classroom.



BOTANICAL FIELD STUDY OF LOCAL VEGETATION OF KHOUPAM HILL

FIELD REPORT

Submitted in partial fulfilment for the requirements of the 3rd semester BSc degree course under Manipur University

Submitted by

Name: Elangbam Jotin Singh.
Class & S. M. Roll no. 8105740

Regd. No. 18870023 of 2018

DEPARTRMENT OF BOTANY

Y.K. COLLEGE, WANGJING 2019

Contents

- Certificate
- Acknowledgement
- Introduction
- > A brief description of the village
- > Report on the vegetation studied
- Conclusion

CERTIFICATE

This is to certify that Mr./Ms & Joten Singh bearing MU Roll No. 8105740 and Regd. No. 18870023 of 2018 BSc III Sem of Botany Department took part in the Botanical Study tour at Khoupam Hill, Manipur on 2/11/2019. organised by the Department of Botany, Y.K. College, Wangjing.

The field report submitted is a bonafide field research worked.

Teacher -in Charge

Department of Botany Y.K. College, Wangjing

Date

Place: Wangjing

Traweld

Acknowledgement

I express my sincere gratitude to Toperjeet Singh Seram, Assistant Professor, Department of Botany for his valuable suggestions, guidance, healthy criticisms, intensive encouragement throughout the course of the study tour and as well as his painstaking help during the preparation of this report.

I also express my heartfelt thanks to Dr. Sushma Ph, Head, Department of Botany, YK College, Wangjing for her advice suggestions and necessary facilities given to us arrange this study tour.

Finally but not the least, I am also thankful to all my class mates and all those who rendered their support while undertaking this work.

Name: Elangbam Jotin Singh Class & Se III Roll no. 8105740

Regd. No. 18870023 of 2018

A FIELD OBSERVATION OF LOCAL VEGETATION OF MOREH AREA



Submitted to:

THE DEPARTMENT OF BOTANY Y.K. COLLEGE Wangjing

(In partial fulfillment for the requirement of the 6th Semester of B.Sc. Botany Honours Degree Course under Manipur University)

Submitted by:

sapan Indica Deri

B.60 5th 8em

Roll no: 7107149

THE DEPARTMENT OF BOTANY
Y.K. COLLEGE WANGJING 2020

Certificate

This is to certify that Shri/Smt/Km Sapan Indisa Dew
bearing M.U. Examination Roll no. 71.07149 and Regd. No. 1785.0248
of 2017 B.Sc.Bst. 5th Len of Botany
Department took part in the Botanical Study Tour at Moreh, Chandel sponsored by the Department of
Botany Y.K. College, Wangjing on 13/11/2019

He/She took keen interest in the study tour and help in making it a grand success.

Teacher in charge

Of the study tour

Date: 20/11/2019
Place: Y.K. Collage Wargjing

Head of Department of Botany

Y.K. Colege, Wangjing

CONTENTS

- 1. Introduction
- 2. Course of Study Tour
- 3 Accessory of collection
- 4. Topography and climatic condition of Moreh-
- 5. Vegetation

Angiosperm

- a. Dicotyledones
- b. Monocotyledones
- 6. Conclusion
- 7. Photographs
- 8. Specimen collections

INTRODUCTION

The observation of flora and fauna in their natural habitat is important and useful for study of natural sciences because it enhanced the knowledge of the fixing things, which have learned in the classroom. In fact, nature itself is a living laboratory where study and observation for obtaining and gaining knowledge in various skills.

The primary knowledge of things is required for study in a particular field. In short, the theoretical classes and field study are supplementary in each other, the combination of which provides valuable knowledge.

The conduction of a study tour on the flora in their natural habitat in an organised manner is a valuable part to be acquainted with and to be acquired by the student of Life Science. It also helps us in underlying the inter and intra-relationship with environment. In addition to it the peculiar characteristics of plants and animals can be observed only in the field study. It also helps us in understanding the human plant relationship that exists in the rural areas of the country. It provides important knowledge about the different uses and importance of many ethnically important plants.

ACKNOWLEDGEMENT

I would like to express my humble gratitude to the learned teachers of the Department of Botany for guidance and valuable advice while conducting the field works at Moreh and Tamu area and for helping me in preparing this field report.

I am also thankful to the Principal for providing financial assistance for the tour.

My thanks also goes to the Manipur University. Canchipur for the inclusion in the syllabus a part of field study tour which provide ample scope in the study of natural sciences.

Lastly but not the least, I also thank my colleagues who accompanied in the trip for their valuable suggestions and cooperation rendered during the field work which resulted in the completion of the entire work.

ACCESSORIES FOR COLLECTION

- 1. A note book and a pen
- 2. A pair of scissors
- 3. A knife
- 4. Polythene bags and rubber bands'
- 5. Specimen bottles
- 6. Formaldehyde
- 7. Camera
- 8. Magnifying lens
- 9. A pair of forceps
- 10. Old news papers

VEGETATION

Plant Group	Scientific Name	Local Name
I. Mimosaceae	Mimosa pudica	Leikang Ekaithabi
_	Acacia arabica	Chigonglei
2. Caesalpiniaceae	Cassia jura	Thaonam
3. Meliacene	Toona ciliata	Tairen
4. Anacardiaceae	Mangifera indica	Heinou
5. Papilionaceae	Crotolaria juncea	U-hawaimaton
6. Myrtaceae	Eucalyptus globules	Nasik
7. Rosaceae	Rubus sp.	
	Fragaria vesca	Heijampet
8. Metastomaceae	Melastoma malabathrieun	Ching heirongkak
Cucurbitaceae	Cephalandra indica] - Demail
10. Umbelliferae	Hydrocotyl javanica	Tayal
	Oenanthe javanica	Lai peruk
	Centella asiatica	Komprek
1. Solanaceae	Solanum nigrum	Peruk
2. Polygonaceae	Polygonum hydropiper	Leipung Khanga
	Polygonum barbarum	Natonsabi
	Rumex nepatensis	Yelang
3. Verbenaceae	Vitex trifalia	Tarong khongchak
	Lamana camara	Uriksibi
. Labiutae	Leucas aspera	Thirei
Amaranthaceae]	Mayang lembum
	Amaranthus spinosa	Chengkruk
. Asteraceae	Altemanthera sessiles	Kabo napi
·	Gymra angulusa	Tera paibi
	Ageratum conyzoides	Khongjai napi
	Eclipta alba	Uchi Sumbal
	Teetona grandis	Teak

Monocotyledonea		
17. Musaceae	Musa paradisica	Laphu
18. Zingiberaceae	Costus speciocus	Khongbal takhelei
19. Cyperaceae	Cyperus rotundus	Sembang kakthum
	Scirpus sp.	-
20. Graminaceae	Cynodon dactylon	Pakhra lukhra
	Crysopogon sp.	Tingthou
	Cymbopogon nardus	Charot
¥	Phragmites karka	Tou
	Setaria pallidefusea	Hup
	Erianthus arundinaceous	Singut
34	Zizania latifoloa	Ishing kambong

CONCLUSION

The sites selected for the study have dense forests and devastated areas where we could see various types of plant species ranging from algae up to the monocotyledon.

In the field demonstration and the discussion we are held regarding the study and collection of the specimen. The importance of the field study is well understood and imparted knowledge of the subject. It would have remained incomplete unless the field study is conducted. It become clear when the plants are observed in their natural habitats. The visit provides much impetus to us about many information exceeding from what we have learnt from the classroom.

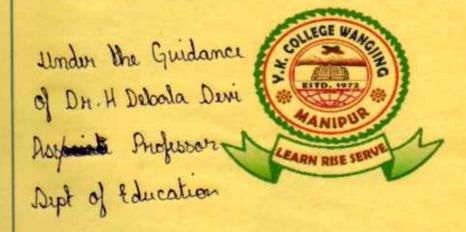
The sites we visited for the study is highly disturbed and would become a vanished site due to exploitation of mankind unless immediate remedial step is taken up. So, it is high time to generate Protective Area Scheme and programme to keep environment intact along with natural flora and fauna for the future generation.

Carred

PRACTICAL NOTEBOOK

FOR
EDUCATION
YK COLLEGE WANGJING

Partial fulfillment of The Requirement For Awarding The Degree of BA-6th Sumeter of Education 2019-20



Submitted By

Pritina Soubam M.U.Roll: 7213934

Regd. No: 17850179/2017

DEPARTMENT OF EDUCATION
YK COLLEGE
WANGJING

CERTIFICATE

Date: /20 This is to certify that Mr. / Ms. Priling Soubam of Class BA 6th Sem Division _____ Roll No. MU 7213934 has satisfactorily completed the course experiments in practical in the academic year of 20___/ 20 ___ in the Institution Y. K College Teacher Examiner Principal Institution Rubber Stamp

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Sr. No.	Experiment	Page	Date of Experiment	Date of Submission	Remarks
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CHAPTER - 1
FOR

IMMEDIATE MEMORY

SPAN FOR DIGITS

Stono					Digil	is of	Nu	mbe	н					
1	4	9	2	5	7	D								
2	6	1	9	5	3	2								
3	7	3	6	4	2	8	1							
4	4	9	3	5	8	7	2	6						
5	8	7	9	6	4	5	1	3	1					
6	1	6	0	8	5	3	7	9	4	2				
7	2	6	3	7	1	4	6	5	5	0	9			
8	3	17	8	1	6	0	7	7	8	2	7	6		
9	8	5	6	14	7	3	4	4	7	4	8	4	7	
10	6	1	0	3	5	11	6	6	0	4	2	5	2	

TABLE NO. 1

PROCEDURE :

Before starting the experiment the subject was asks to sits comfortable in a quite corner of laboratory. Hoem of Education Department facing the experiment.

A wooden screen is kept in between the subject and the experiment. After these, the subject was given the following instructions as "Be Attentive and listin carefully, concentrate your mind. I will speak out the content numbers and your mind. I will speak out the experiment started the mumbers of 5 (five) digits and produce upto the 8 (eight) digit. In this experiment the experimenter should read out the number slowly and with a clear voice.

The experiment will proceed upto the mumbers of certain digits which the subject can produce upto 9 (mine) digits of serial mo. and the proceed upto 10 (Ten) digits of serials mo. 6 (six).

RESULTS :>

As the subjects can reproduce upto 9 (nine) digits of sirials no 5 and fail to produce the number of 10 (ten) digits of serial no. 6. The immediate memory span for digits of this subjects is normal.

The result of the experiment is shown in Table no II.

Teacher's Signature:

Sl mo.	NO. OF DIGITS	RESPONSE
1	2 mm 5 Jun 20	CORRECT
2	Coming Single	CORRECT
3	aldus 7 myllid	CORRECT
4	munic 8 are londie	CORRECT
5	den 9 de la forma	CORRECT
6	10 m m 10	INCORRECT
7	Translation of a	I Think here from
8	12	Man (671) 2 14 14
9	13	Transmission and the
10	140	D. BEUTE, WILLIAM VI

the second secon

aligh (rule) Pralque sombarme mon shipher till she

roje, ju sterm. Neikimmin, 1874 B. St., Jaine, St. Lini

The state of the second second

21	MEDIAT	E	MEMORY	SPAN	FOR	NON- SENSE
5	YLLABLE			laine is	21	V 3, (13)
	JECTIVE using n	To .	determine t sense sylle	he mimory	span	of a subject
SUI	<u>BJECT -</u> Qual	ifical	ne - Pritina ion - Stude			
		Sim.	ge - 21 c - Female e - 10:30 e - Educali	am	munt	
	ITERIAL	R	EQUIRED			
1) A	l chart of upto se	f no	n-sinsi is	yllables s	tarting	from 3 words
	A record		rut. irasir, so	ale eta		
- V			o consider , con	400.	Teache	ń Signature:

NON-SENSE SYLLABLES

51 mo	Non-Sinse Syllables
1	Bok, Dup, Sep
2	dep, Pap, Jox, Fip
5	Sik, Nok, Mon, Kap, Guz
4	Nom, Jim, Ref., Soy, Duf., Pag,
5	Saz, daj, Dum, Jan, Fig, Maw, Joy
6	Kan, Jig, Bik, Jop, Gok, Mac, Nip, Sip
7	Hek, Jum, Eal, Puk, Kal, Zic, Ket, Zin
8	Hek, Jum, Mit, Pak, Kok, Pap, Nup, Tok, Dir
9	Per, Pag, Dur, Sar, yip, Mer, Jar, Sib, Pic, Fro. Hin
10	Half, Barc, Kox, Juf, Kig, Pip, Bap, wip, Kuk, Net, jon
11	Gar, Bur, Jex, Sur, Jep, Pas, Sep, Key, Mak, Bax, Dy, Hep, w
12	Jon, Tef, Jay, Sak, Pak, Duk, Sel, Jar, jeck, Hex, Jex, Jew

PROCEDURE

Before starting the experiment the subject was asked to sit comfortably in a quite corner of the laboratory room of education department facing the experimater. I wooden screen should be kept in between the subject and the experimenter. Then the experimenter given the following instruction to the subject as: Be attentive and carefully concentrate your mind. I will read out the mon-sense syllables now by now, you are required to reproduced them as soon as possible." The experimenter ask the subject to set comfortably on a shair facing each other. After giving the subject as signal to get ready. The experimenter the first mon - sense syllables ward of the list for the subject to reproduce. And the experimenter presents the mext 4 wards so the procedure is continued until the Subject fails to reproduce the words correctly. In this exposiment. The subject can reproduce upto 7 words and its incommenter produce upto 8

RECORD SHEET

Slmo	No of Words	RESPONSE
al Iten	minima 3 ilt Tantona	CORRECT
2 2	periodició de la gran	CORRECT
3	Surface 500 - unterprise	CORRECT
16 4	male and mile	CORRECT
co 5 sollo	and activity literarching	CORRECT
May 6	8 21120	INCORRECT
- For	Mayor Eganthich.	Arphyle maximulathritima.
8	10 - шада	One excent ondolly or
9	HELEN IN	
10	12	XBD - HOM SHIPPING TO LOD
	13	
12	14	

Jable - 4

Camlin Page No. 5 Experiment Name / No.: 2 RESULT:> The subject can reproduce upto 7 words correctly and fails to reproduce the 8 words. 50, the immediate memory span of the subject is mormal ar average the result of this experiment is shown in table no .04. mur Teacher's Signature...

SI mo	Stimulus	1 st Response	time taken	Remark	2nd Response	time taken
1	Apple	Fruit	1 sic	Easily	Mango	1 sic
2	Animal	Jungle	20 sic	Easily	-	12 sec
3	Boy	Child	8 sec	"	Girl	8 suc
4	College	Institution	2 sic	,,,	Student	3 sec
5	City	Jower	1 sec	21	Bombay	5 sic
6	Door	Window	1 sec	,,	Scrum	2 sic
7	Dress	T-Shirt	1 sec	11	Smart	1 sec
8	Chectric	Bullo	1 sic	"	Wire	1 sec
9	Exam	Fist	1 sic	,,	Examiner	1 sic
10	Bag	Pursi	1 sec	17	Money	1 sec
11	Father	Mather	1 sic))	Parents	1 sec
12	Flower	Rase	1 sec))	Lotus	1 sic
13	Gardin	Flower	1 sec	"	Beauty	1 sec
14	Gate	Door	2 sec	37	Outside	2 sic
15	Haliday	Sunday	1 sec	,,	Free	1 sec
16	Hall	Cinema	1 sec))	Drama	1 sic
17	Ink	Pen	1 sec))	Pot	1 sec
18	Insict	Bu	1 sic	,,	Butterfly	1 sec
19	Jungle	True	1 sec	,,	Animal	1 sec
20	Jug	Water	2 sic	,,	Mug	3 sec
21	lings	Finger	2 sec	"	Queen	5 suc
22	Kiti	Fly	1 sic	,,	Children	
23	Bright	^	1 sic		Morning	1 sec
24	Light	Bulb	1 sic	,,	Day	1 sec

	-
Monthly 2 miles in the Carrier	28
Free Association Test	40
The state of the s	28
OBJECTIVE:	Deb.
Jo study the nature of the fru association of the subject.	re
subject.	3113
The state of the s	381
MATERIALS REQUIRED:	33,6
A list of 50 stimulus words as shown in figu	н
a stop watch wooden screen and record sheet.	163E
	SELIE
SUBJECT:	NEE
Name -> Priling Soubarn	38
Qualification -> Student	Sies!
15 Age > 21	194
Senc + Female	144
Jime >	154
Place → Education Department	1
Date >	
	130
PROCEDURE:	36
	tion
Before begining the experiment on free associatest, a list of 50 words, some animals and some furniture	181
were prepared by the experiments in a sheet of paper as	RE
shown in table no	90
VALUE OF THE STATE	

Teacher's Signature:

25	desson	Chapter	3 sic	Uniasy	Student	3 sec
	Mountain	Hill	2 sec	Easy	Himalaya	2 . 610
	Night		1 sic	,,	Scared	2 sec
COLUMN TO SERVICE AND ADDRESS OF THE PARTY O	Noon	Euring	1 sic	3)	Lunch	2 sic
		Cow	1 sic		Farmer	1 sic
		Air	1 suc))	Nitrogen	1 sic
31	Pencil	Book	1 suc))	Eraser	1 sec
32	Practical		1 sec	"	Notibeek	1 sec
	Question	Answer	1 sec	"	Pin	2 sic
	Qualified	Doctor	1 sic))	Educated	3 sic
35	Rice	Lwvy	1 sec	"	Padoly	1 sic
36	Ristaurant		3 sic	Uneasy	Omelet	1 sec
37	School	Student	1 suc	tasy	Teacher	1 sic
38	Small	Big	1 suc	57 4	Fat	2 Sec
39	Timple	Good	1 sec	"	Prayer	1 sec
40	Time	Watch	1 sec	,,	Hour	1 sic
41	Uncle	Aunts	1 sec))	Relatives	1 sec
42	Van	Transport		55	Lan	1 sec
	Vegetable	Cabbage	1 sic))	Tomato	1 sec
44	War		1 sec	,,	Revolution	2 sec
45	Water	Liquid	1 sec	22	Ice	1 sic
46	Xray	Partient	1 sec	29	Doctor	1 sec
47	X mass	Christmass		,,	Tru	1 sic
48	Yatch	Sia	1 sec	,,	Bord	2 sic
49	Yen	Rupu	1 sec))	Japan	2 sec
50	Mily	Strungth	1 sec	"	Same	1 sic
					I ASN	

From the above experiment it is found that in a process of free association the assumption being that the series is not determined or directed by any concides determination of the mind is allowed to flow freely, but This is not so free in the sense that the connected ideas are suggested merely by accident.

Teacher's Signature:

Experiment Name / Noz 3	Camlin / Page No. 8
It is abrious that me association is intimered the highest traction time is 30. I section time is 1 sec. Sometimes the subject of the subject of the subject of the experiment. RESULTS: The result of the experiment is a street when the subject of the experiment.	oly free. In this sec and the lowest may fail to give es word this failure sturbances. J. delay the abnormally
15	

CONTROLLED ASSOCIATION TEST
INTRODUCTION:
In controlled association the subject is instructed to response with the single response within a specific class or categories to which he is to restrict
sunstructed to response with the single response within a
specific class or categories to which he is to restrict
$J \psi m \wedge \iota u$.
Many response become possible against each stimulus but a limit is for controlled association of the limit compute the subject for only one response. Then the association is known as controlled association.
compute the subject low only one Hespoonse Then the
association is known as controlled association.
OBJECTIVE:
To find out the response of the subject in a
To find out the response of the subject in a controlled situation against the stimulus work.
SUBJECT:
Name: Priting Soubarn
Qualification: BA 6 th Semester
20 Age: 21
Sex : Female
Jime: 11:30 am
Place: Education Department
Dati :
25
Teacher's Signature:

by the subject is right or wrong or easy or difficult are well noted down in the sheet. It the end of the experiment the total response time is calculated.

Experiment Name / No.: 4	Camlin /Page No.
Experiment Name / 140.	Date I I
RESULT:	Compact Libraries on the
The average reaction time has result of the classes is also tobulated average reaction time for all the for compared. It is found that as show the average reaction time decrease as increase. This shows the subject he capacity. The fact may be varified another subject and with the result identical experiment.	of in table no. the us sizes have been in the opposite. The degree of controll are natural thinking
identical experiment.	
15	
20	
25	Teacher's Signature

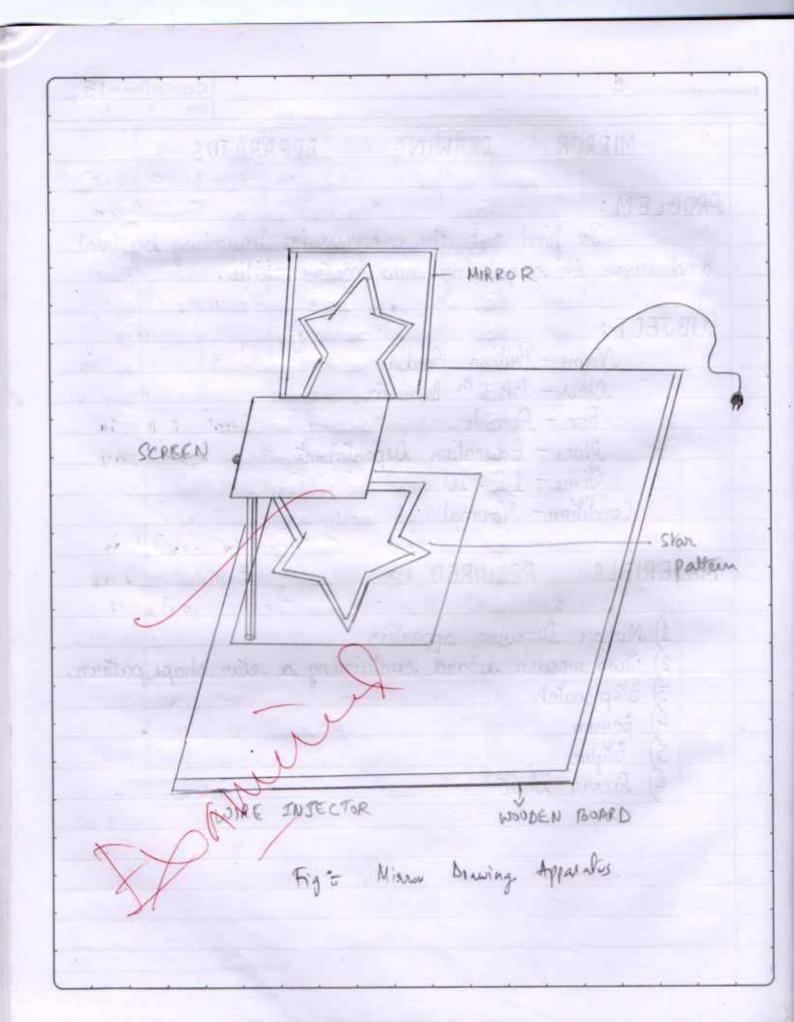
91 mo	Stimulus	Response	Reaction	Elno	Stimulus	Risponsi	Reaction Time
1	Wina	liquid	1 sic	1	Reptile	Wild	1 sec
2	Sea	water	1 sic	2	Flower	Rasi	1 sic
3	Wood	bu	1 sec	3	Vegetable	Mustard	1 sic
4	Ball	round	1 sec	4	Animal	Tigor	1 sic
5	Lup	Mug	1 suc	5	Bird	Parrat	1 sic
6	Book	Paper	1 sic	6	Cloth	Shirt	1 sic
7	Water	Clock	1 sic	7	Fruit	Mango	1 sic
8	Dark	Black	1 sec	8	Games	Cricket	1 sic
9	Ware	Tide	1 sic	9	Insect	Bu	1 sic
10	Music	Song	1 sec	10	Furniture	Table	1 sic

10 Sec

Teacher's Signature

each test soon as possible.

The subject started the incomment after he was asked to do so and stop watch was stoped as seen as the subject jimish the first subject and the actual time table taken by the subject was recorded in table no 8. The second subtest started and here too the actual time was noted in the same table against sub test 2. This way the subject did up to 7th sub-test easily. RESULT: According to score, the intelligence qualient of the subject comes and to be 106.25. Thus the subject may be considered to have normal intelligence. According to the manual through the subject is 20 years ald. It ill be presented as only 17 years. Thus I as of the subject is found to the mormal.	Experiment Name / No.: 5	Camlin /Page No. 14
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	According to the manual through H	be Aubirot is
	15 20 wars old. It'll be presented as only 17	wars Thus
	I Q of the subject is found to the	lampag
	8 3 9 3 3	
	THE RESERVE TO STATE OF THE PARTY OF THE PAR	network at the
		Land Hills
	8	
Teacher's Signature:	Teacher's Sign	oture



PROCEDURE:

A mirror drawing apparatus is a simple arrangement by which a screen cover the figure to be traced by looking that mirror image the angle of the screen can be adjusted so that while the subject can slip his / hur hand within the screen area the as the cannot directly see the given figure on a board but can easily look at the mirror image.

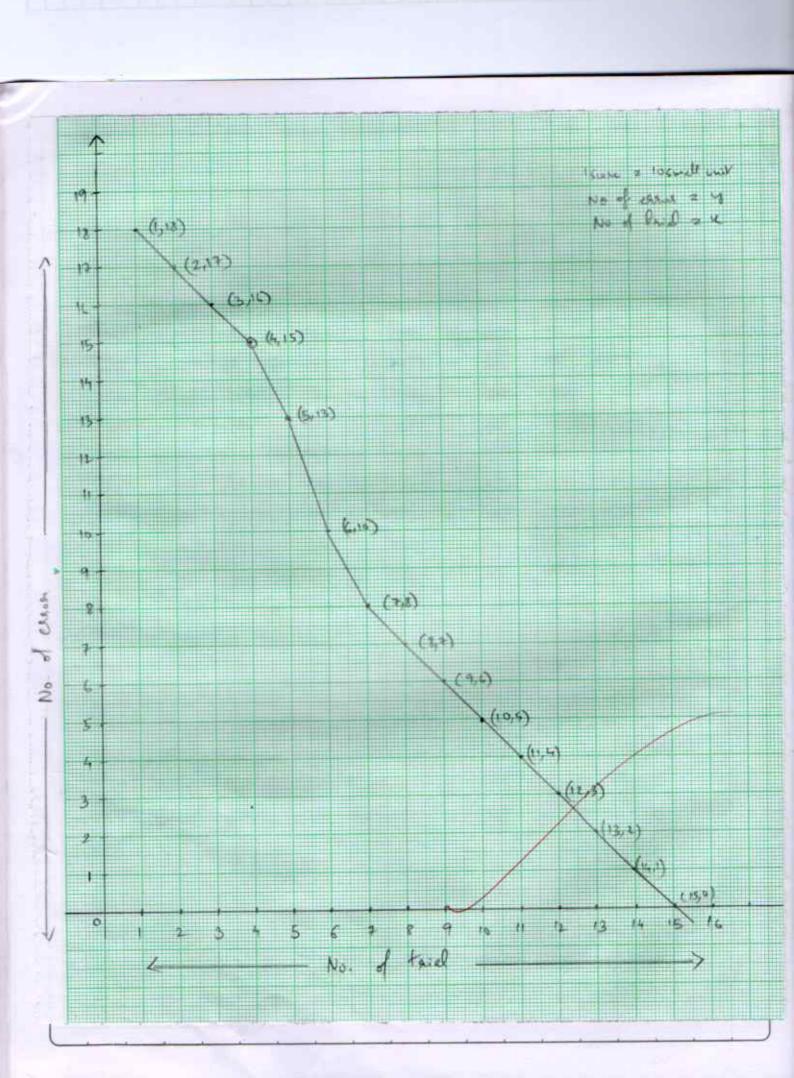
1) The mivror drawing apparatus is placed upon the table
the stop watch and record sheet are kept behind the screen.
the subject is sitted comfortably. A star on the board of
the apparatus with the starting of the task mear to subject.
The following instructure given to the subject by the
enperimenter. I will quick y quide quote guide your hand
with the stylus to the starting points of the you have
to traced in the figure in a clockwise or anticlockwise
direction your wrist and elbour should remain free
prom any contact with the board. If the stylus strays
outside the line, that will be counted as an every
you should bring the stylus immediatedly within the
line and continue to braced the figure ontils it is
completed. Then I will remove this and replaced with a
mew star figure and you will try again. You will take
15 treats and then you can rest."

	RECORD	SHEET	
No of trial	Time taken	No. of error	
- 1 Hegy	4 min 10 sec	18	
2	4 min 9 sec	17	
3	4 min 5 sic	16 periode	บละ ในวกเกี
4	4 min 5 sec	au 115 ha 10	
5	3 min 30 sec	denin 13	
6	3 min 10 sic	10	
7	3 min	8	
8	2 min 4 sic	7	
9	3 min 4 sec	entropia 6 militario	Amount of C
10	2 min 15 sec	5	
45 111 11	2 min 10 sec	4	
12	1 min	3	
13	1 min	2	
14	2 min	Said Land	
15	0	0	
16	Line of Mariana	A service II sell	de Santa de

Table-9

range makes him nowed the took wit

Experiment Name / Noz	Date
2) The time is immediately noted for tro shape. The error are counted.	icing the star
shape The even and counted.	
waye. wa we we water water water	
2) M. 15 L. 1 . 11 . 1 . 1 . 1	¥ 10 I
3) Take 10 trusts with a rust puriod of 5 min	rules, after a set
of 5 trials and then take 15 trial with th	e figure given
rest after 5 trials for 5 minutes.	0 0
The experiments prepare to	eraph paper of
subject leasing a time areal showing	the chance in
subject learning, a time graph showing	Sold whole 216
time and error graph showing the num	ratur go ruar
from trial to trial. The experimenter als	so records for
his ar her objective observation of subj	ect behaviour.
new the subject attracks the problem and	motes the mark
of subject Juling from his or her Jacial	
and rumake made and other response. It	he table no 9 and
graphical representation of the experiment.	
time taken and number at the experience	Alan in on
time taken and number of the veror was	s consum on
page mo 18.	
0.000	
* RESULT:	
The result of experiment is show	un on pagemo.
	1 0
Teacher	s Signature:



Experiment Name / No.: _6 Camlin | Page No. 18 OBSERVATION: from the result of increase while the no of error decreases. The error has succession trial is also shown on Table mo at page no

Slmo		Slmo		Slmo		Elmo		Simo		Slmo	
1	1	21	5	41	3	61	8	81	7	101	2
2	4	22	3	42	7	62	3	82	3	102	5
3	7	23	7	43	5	63	7	83	6	103	9
4	2	24	6	44	9	64	8	84	-1	104	5
5	8	25	4	45	3	65	6	85	9	105	2
6	9	26	8	46	8	66	3	86	3	Marie 1	
7	4	27	5	47	9	67	7	87	2	min.	
8	1	28	1	48	2	68	9	88	9	PE	
9	5	29	9	49	8	69	6	89	3		
10	8	30	7	50	3	70	5	90	7	-	
- 11	2	31	8	51	7	71	7	91	5	- 24	
12	6	32	2	52	5	72	8	92	4	-	
13	9	33	6	53	3	73	6	93	8		
14	4	34	3	54	7	74	8	94	2		
15	3	35	9	55	8	75	2	95	7	100	
16	7	36	5	56	3	76	9	96	5	-	
17	9	37	4	57	2	77	5	97	7		
18		38	2	58	9	78	3	98	9	-	90
19				LACOPC I		79		99	3	100	
		40					5	100	8	100	

2. MULTIPLICATION CHART:

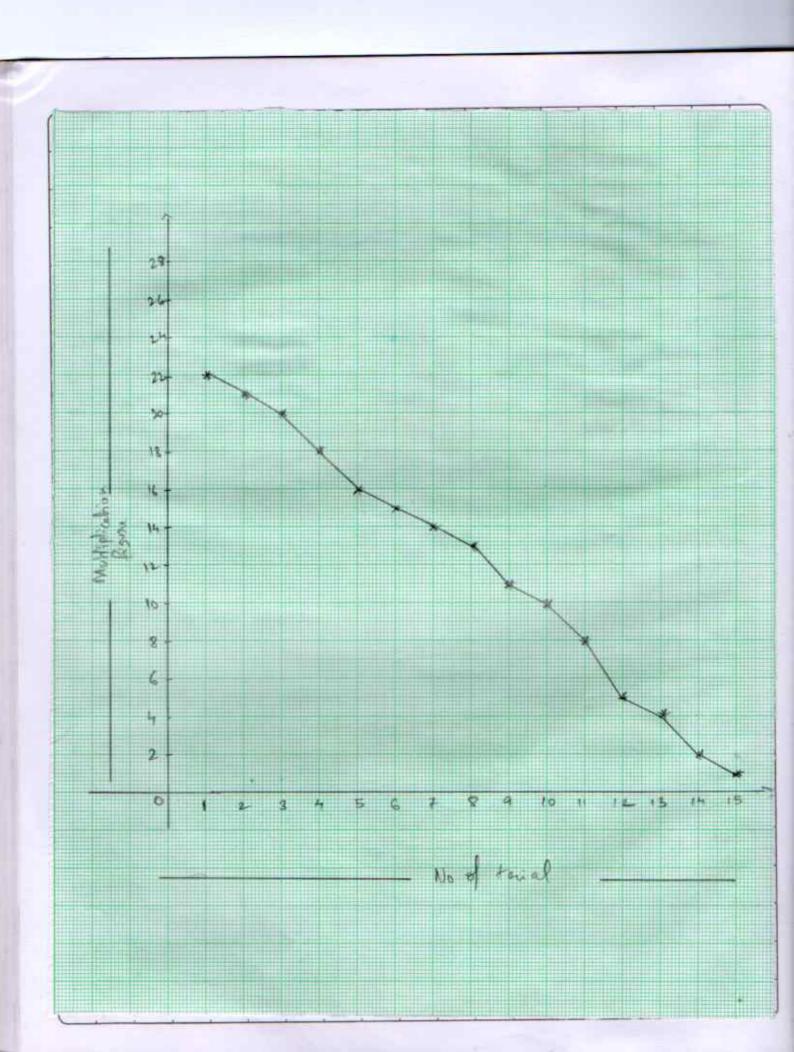
Stop watch, Notebook, Graph paper and Screen.

PROCEDURE:

The subject is given an chair to sit comfortably. The multiplication school is placed before him multiplication chart is placed before him beneath the screen. Then he is given the follow instruction.

I shall give you the question of ready. Then I will asked within a moment time to start, phase take out the multiplication table and start the multiplication one by one in the table, Let us suppose that the table in the following one.

Jhen first of all you have to multiplied the first figure with the score one the 4×4=16. Then you have to multiplied 6×7=42 with the next figure which is 2×2=4. Then 2 of 4 has to multiply by the mext so 9 that is 32. then 8 of 32 is to be multiplied by the mext no 9 that is 2×9=18. The 8 has to be multiplied by the mext no 9 that is 8×9-32. No 1 that 2×1=2 then 2 of 2 will be taken as 5 figure and therefore. This is to be multiplied by 2×5=10 you have to do this for half an hour when I say stop you will have to put a full stop at the place when you happen to me but you are not to stop you have to centime the multiplication work.



	COLOUR PREFERENCE TEST
T	NTRODUCTION:
- 4	
5 (The experiment is meant for studing the
	colour preference of an individual. In general every person has a generalised order of preference for colour.
'A	However, sometimes situation factors also affect the
N	ago while willies for it soows, plane in incomment is
L	o locate and these is consiguence change of prefirence
10 1	r different aco occassions.
S.	UBJECT:
3	Name: Priting Soubarn
1 4	Qualification: Student
ts	Age: 20
	Six : Female
	Date:
	Place: Education Department
20 P	ROBLEM:
	To determine the colour ovelvence of an
in	To determine the colour preference of an adividual in Rank difference method.
	0.0
25	
	Teacher's Signature:

EL TE TELL	Black	01		grange	01
TO HOUSE !	springs	6	de Diamira	While	Ь
QA JARRAMAN	Lumas	8	The second second	bed	8
HERRING BOOK I	Shrift	t -		Chamm	Ł
PONTON PROPERTY	emble	9	The state of the s	Tusmus	-9
LINES LOCALIDA	White	9		wallsy	9
	Fire	4		mel	- 4
THE SHAPE OF	worth	3		Shoul	3
AND STATE OF THE PARTY OF THE P	walley	2	THE RESERVE	Stack	2
	best	T SKE		mil	F
swalal	Norms	anis	ниавал	Name	am la

The State of State of Annual Control of State of

MATERIAL REQUIRED:

Two set of 10 small pieces of colour papers

PROCEDURE:

Before starting actual experiment, the experiments will give 10 difference calour of paper to arrange. These colour pieces are kept ready to be selected and put them in an order way in the preference colour.

The first choice is put against mo. I of the preference colour. The 2nd Choice in no 2 and so on. After giving 1 st preference the subject will be given another 5 minutes. When, the time comes he gives another set of equal 10 colour pieces of paper for some task. He will not be allowed to see first preference after giving the necessary instruction. He was given to colour pieces to put at their respective places according to his choice as shown in table so.

The order has noted after I minutes, the subject has given second set of 10 colours and asked to avrange them once again and it was noted in table no-

Slmo	1 st preference	Sl me	and preference	0	02
1	f ire	1	Red	7	49
2	Black	2	Yellow	-8	64
3	Pink	3	Grun	-4	16
4	Blue	4	Fire	-2	4
5	Yellow	5	White	3	a a
6	Sunset	6	Blue	-2	4000
7	Green	7	Pink	4	16
8	Red	8	Sunsil	7	49
9	White	9	Orange	4	16
10	Orange	10	Black	1	17.00

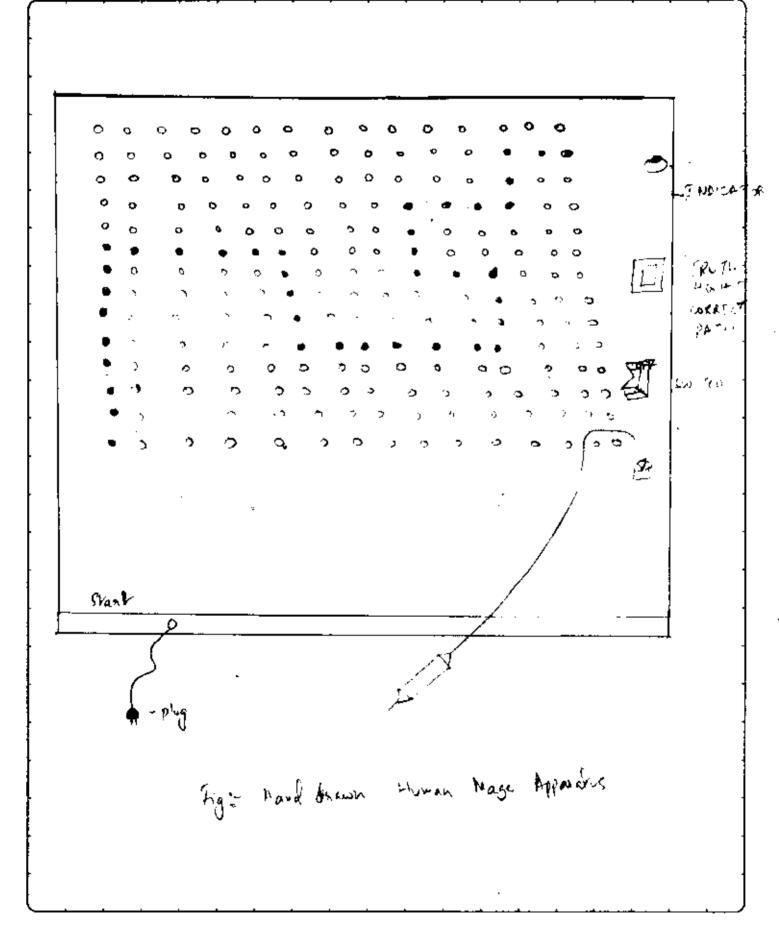
 $\leq 0^2 = 228$

By the formula
$$P(Rho) = 1 \frac{6 E D^2}{N(N^2 - 1)}$$

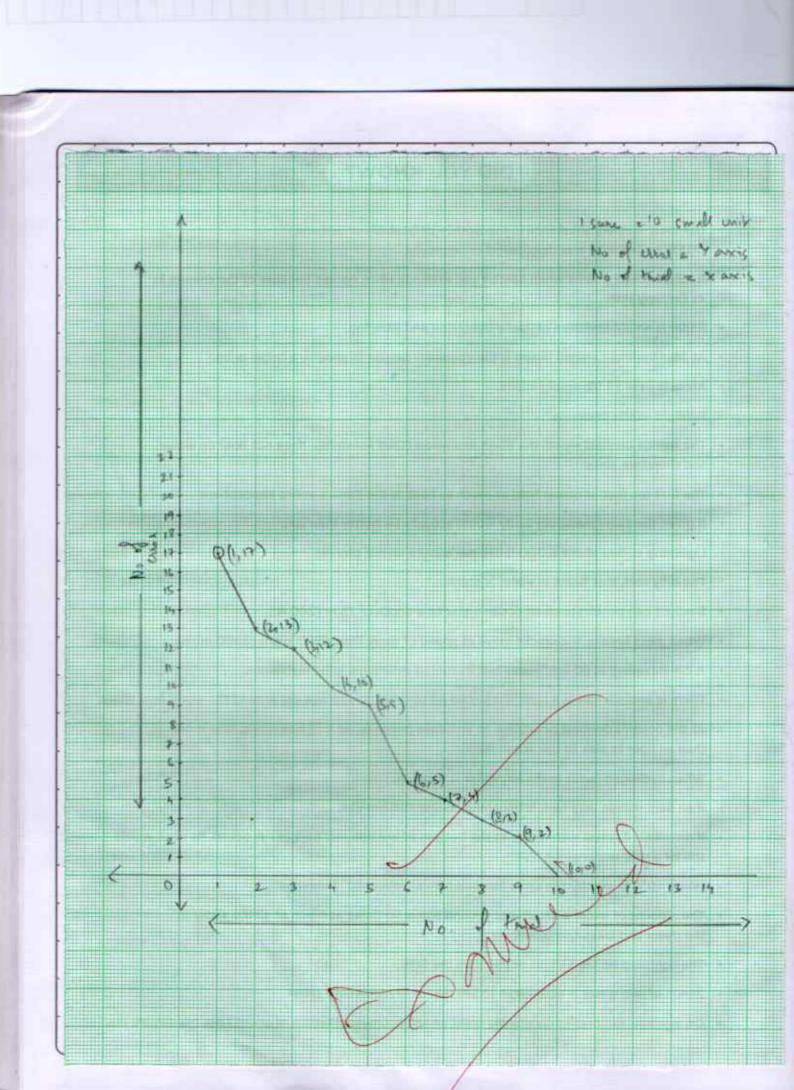
$$= 1 - \frac{6 \times 228}{10(10^2 - 1)} = 1 - \frac{1368}{10 \times 99}$$

$$= 1 - \frac{1368}{990}$$

Table mo-11



	HUMAN MAZE LEARNING
ō	OBJECTIVE: > To obtaining the nature of progress in harning made by an individual or students by using an electrically human maze apparatus.
1	SUBJECT: >
0	Name: Priting Soubarn
	Glass: BA 6th Semester Sex: Female Time: 11:10 am
55-	Date: Condition: Novemal Place: EDN Department
	MATERIAL REQUIRED -
80	1. Human Elictric Maze 2. Stop Watch 3. Record Sheet
5	PROCEDURE - In this experiment, we are referring to a human electric maze in which 'S' is to be written
	Teacher's Signature



	INK BLOT TEST
C	BJECTIVE:
	To study the number of association of the subjects
-5	to ink blots.
1	MATERIALS:
1	1.10 ink blots as shown on
10	2. A stop watch 3. Record shut as shown on
	The second series of the companion of the control o
	1st Subject
	Name: Jara
	Qualification: Student Sex: Female
15	Time: 11: 15 am
	Date:
	2 md Subject
20	Name: Printing. S
	Qualification: BA 6th Semester Suc: Female
	Time: 11:50 am
	Date:
25	Place: Education Department.
	Teacher's Signature:

PROCEDURE

For this experiment 12 ink. Blot all of one colour ore prepared first two of this blot are used for the practical work.

A convinent place is selected in the taboratory for the test. The subject is asked to take this seat facing the experimenter. By using one of the practical ink blot. The experimenter explained to the subject that as soon as a blot is shown. He should report what object or image he could see in the blot. Each blot is shown for 3 minutes. The second blot is then shown for practised work the experimenter recorded the response as well as the association reaction time of the subject of the 1 st response to a blot at the time of exposure the position of each blot is not altered.

Then all the six blot are shown one after another for the main experiment. The subject is given half a minutes or one minutes rest between any two response.

CLASSIFICATION OF RESPONSE TIME

Subject 1		Nama: Yara		Suc: Firmale		
No of Blot	Reaction	Anatomical Figure	Human Figwri	Mythological	Inanimate Object	Movement
1	45 sec					Bird
2	1 min	al, int in	Jalous Street	ai mala	Same of 1	Insict
3	25 see	alt relation	pulsa	s indust	True	THE CALL
4	20 sic	RE OUT	2 STATESTA	JEL L. SULTER	WHITE PIE	Scarpion
5	1 min	TARE DE	and and a	- 37 PH TO SE	Cactus	12 /5
6	2 min	bissario a	pp. diga:	20, 5000	rel usa de de	a toka

Yably - 13

Noal	and the second second	Anatomical	Human	or Soubarn Mythological	Inanimate	Movement
Blot	Jime 1 min	Figura	Figure	dxorla -	Plower	truspas
2	50 sec				3.00.00.00	Crab
3	45 suc	0 1900	INO.	nio. Toug. u	8 Ha will	D W 11
4	1 min	media u		muluores, a	more this	Butterfly
6	2 min	Mented 1	May Carr	CHING SETO	38	

RESULT:

The calculation of the average no of responses to blot by each subject, the average association reaction time of the first response to blot by each subject were the result of the experiment the result are shown in a tabular form an page.

OBSERVATION:

The ink blot test is the most popular projective technique and is concern with the total personality. Many psychologists have used meaningless in blas as materials for investigating the imagination.

In this experiment the subject is permitted to organised perceptually such stimuli as the mianingles ink blot and from which the structure aspect at personality chief direction of interest, impulsively self restrain and other aspect of temperament are readily directed.

The scoring category of the test diversy interpreted as signifying different function of the personality intellectual creatively, out going emotion,

Experiment Name / No.: 10	Camlin / Pege No. 32
practical minded and the like the interest the responses is mainly on the interest intelligence is shown by good form, a movement responses. But an ancess of shown a more abstract and synthetic details more practical and unusual descriptions represents a rich in responses shows lack of sma imagination responses nobility.	responses at ordinary etails etc.
15	
20	
Teoche	n's Signature:

INTRODUCTION

While studying plants a detail survey, distribution collection and identification are important so as to arrange them systematically. In the present investigation a detail study in this regard was conducted in the Khoupham hill located in the Khoupham village. Imphal West district, Manipur

In the present investigation, survey, distribution, collection and identification of plants naturally available in the Khoupham hill was planed as a preliminary and first report of its kind. The study tour was done on 2nd Nov.2019 in the morning at 10 am

Various plants were collected and categorized systematically along with their importance in the human society.

A BRIEF DESCRIPTION OF THE VILLAGE

The Khoupham village is located 4 km away from the Manipur University on the southern side. The village over an area of 4.5 square km It is inhibited by Kabui community. The population of the village 600 and the number of houses is around 96. The number of female is more than those of male. The literacy rates about 40-45%. The village has only one LP school and some *anganwadi* centre the majority of the villagers still.

The forest is reserved one covering an area of 5 hectare and the forest is of mixed type. The major forest products are fire wood but other like friits, food items, and medicinal plants are also obtained. The village has two sacred forests – *Khunthak* and *Khuntha*.

The area under agricultural practice is about 100acres. The villagers used sophisticated techniques of agriculture, pesticide, herbicides, fertilizers and high yielding varieties.

REPORT ON THE VEGETATION STUDIED

The members of the team witnessed with enthusiasm the peculiar vegetation of the study sites. Even though we could not penetrate deep into the extreme areas, we made a brief survey of the hill sides along our tract we collected some plants/ plant parts that are useful for the preparation of herbarium

The following is the lists of plants that we recorded during our course of our study

Botanical name	Manipuri name	Kabui name	Family
Quercus serrata	Uyung	1hui	Moracea
Toona ciliata	Taire		Meliaceae
Dioscora alata	На	Lu	Dioscoraceae
Rhus semilata	Heimang	Tamei	Anacardiaceae
Ficus hispida	Aseiheibong	 	Moraceae
Perkia roxburgii	Yonchak		Mimosaceae
Musa paradisiaca	Laphu	·· ·	Musaceae
Bambusa sp.	Wa	Pei	Poaceae
Tinospora cordifolia	Ningthoukonlei	† " " '	
Cltis timorensis	Heikrang	 	Ulmaceae
Smilax s.			Liliaceae
Wendlandia glabra	Pheija		Rubiaceae
Adhatoda vasica	Nongmangkha		Acantaceae
Bauhinia sp.	Chingthrou	-	Caesalpinaceae
Arund donax	Yenthou		Poaceae
Clerodendron siponanthus	Charoi utong	 	Verbanaceae
Eupatorium birmanicum	Langthrei		Asteraceae
Ardiría colorata	Uthum		Мугтіпасеае
Hedyotis auricularia	Langban koukha	Kansui	Rubiaceae
Stelarria media	Yerumkeirum		Caryophyllaceae
Tectona randis	Chinsoo	1	Verbanaceae
Phyllanhus emblica	Heikru		Euphorbiaceae

Zanthoxyllum sp.	Muktrubi		Rutaceae
Centella aciatica	Peruk		Apiaceae
Pyrnus communis	Naspati	 	Rosaceae
Mangifera indica	Heinous	1	Anacardiaceae
Mussaenda roxburghi	Hanurei	Laphui	Rubiaceae
Nastertum indicum	Uchihangam		Brassicaceae
Oxalis corniculata	Yensil		Oxalidaceae
Plantago erosa	Yempat	" ""	plantaginaceae
Polygonum barbatum	Yelang	 	Polygonaceae
Michelia champaca	Leihao	<u> </u>	Magnoliaceae
Leucas aspera	Mayang lanbum		Lamiaceae
Azadiracta indica	Neem		Meliaceae
Gymara sp.	Tera paibi		Asteraceae
Citrus sp.	Nobab	•	Rutaceae
Elaecarpus floitandrus	Chorphon		Tiliaceae
Solamum indicum	Leipungkhang	†	Solanaceae
Plectranthus ternifolius	Khoiju	†	Lamiaceae'

CONCLUSION

The site selected for the field study is a rich one. Being a mixed forest, we could see, though it is sparse, the representative of all groups of the plants ranging from Algae to Angiosperm. In the field, we demonstrated how to go to the field and collect the specimen s. the importance of field study in natural scinces, particularly in Botany, is tremendous and without it the study of the subject remains incomplete. Whatever taught in the class was seen vividly in their respective habitats besides, the consciousness of the existence of plant kngdom from Algae to Angiosperm is made all clear when they are seen in the natural environment.

The vegetation in the study site seems to have been of great importance by providing a variety of plants which are required for various purposes including socio religious rituals, medicines and even various wild edible plants and various other useful plants. However this reserve forest is under tremendous human pressure and if this continues for some years than the rich biodiversity will be ruined, still it is not too late to regenerate it through the consciousness and awareness of the people there and those nearby.

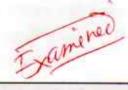
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FIELD REPORT

ON

SOCIO-ECONOMIC SURVEY OF THE SAIPUM VILLAGE, CHARACHANDPUR

Under the guidance of
ELANGBAM SURCHANDRA MEITEI
HOD, DEPARTMENT OF GEOGRAPHY
Y.K. COLLEGE, WANGJING





GROUP PHOTO

6TH SEMESTER (HONS & GEN)

DEPARTMENT OF GEOGRAPHY

SESSION – 2019-20

ACKNOWLEDGEMENT

The nature of training in the field of Geography will be different for various classes of students. It entirely depends on the type of knowledge that the student has gathered in the class. In the undergraduate studies, too much emphasis on the physical geography becomes burdensome. In this class, various types of human activities are analysed and whatever possible, their corelationship with physical element is established. For this reason, these students are required little training in the observation of physical element in the field. But a personal contact with human activities is essential. Student may be taken outdoors in different regions so that they may be able to observe personally the various forms of cultural elements and human activities. Thus, sight-seeing becomes an important aspect of field geography which can be achieved by arranging simple excursions to adjoining or distant lands. This study has been undertaken and completed under the guidance and supervision of our respected teacher Sir E. Surchandra Meitei, HOD and Sir N. Jayenta Meitei, Dept. of Geography, Y.K. College, Wangjing. I am highly indebted to his enthusiastic, untiring and scholastic guidance throughout the work.

With profound gratitude.

Date: 25 -02 - 2020

Signature of Student

K. Robinson Single

Certificate

This is to certify that Kucham Rebinnen Singh..., B.A. 6th Semester (Hons) bearing Roll No. 7213959..., Registration No. 17850095 [2017... candidate of Manipur University appearing from this College has completed his project report titled on Socio-Economic Survey of Saipum Village, Churachandpur and has given a satisfactory account on Notebook containing a record of project report.

Date ... 2 | 02 | 2020

Signature of Guide

E. Surchardle Mirki

INTRODUCTION

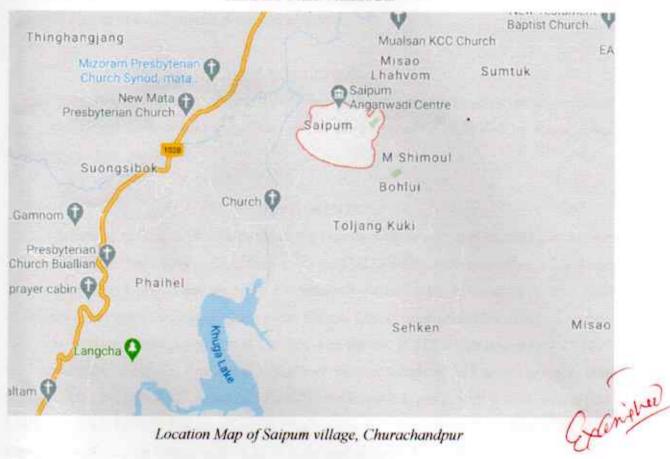
Field work constitutes an important role on geographical studies. In order to study the nature of men and their environment, we need field work by which we can collect first hand information and analyse them through various methods. Ourclass of B.A. 6th Semester Geography Honours students organised a study tour at the Saipum village in Churachandpur district on the 25th April, 2020 under the guidance of Sir E. Surchandra Meitei. We hired one bus and assembled at the College gate at about 7 a.m. on that day. Then, at 7.30 a.m, we set off the tour for our destination. Saipum village is about 70 km away from Imphal and 88 km from our college. It took nearly 2 hours to reach the village by our bus.

OBJECTIVE

The main objective of the survey is to study and explore the Saipum Village from social, cultural and geographical point of view. In order to achieve this objective, we have to find out the following aspects:-

- Demographic aspects like household size, sex ratio, literacy etc.
- Economic aspects like occupation, duration and distance to workplace.
- 3. Social aspects like religion, social category, marital status etc.
- Accessibilities to health and educational facilities.

ABOUT THE VILLAGE



Saipum village is located in Churachandpur Tehsil of Churachandpur district in Manipur, India. It is situated 7km away from Churachandpur, which is both district & sub-district headquarter of Saipum village. Toljang Kuki (1 KM), Mualsan (1 KM), Lingsiphai (1 KM), Mata (1 KM), Zenhang Lamka (1 KM) are the nearby Villages to Saipum. Saipum is surrounded by Lamka Tehsil towards North, Churachandpur Tehsil towards North, Tuibong Tehsil towards North, Samulamlan Tehsil towards North.

PHYSICAL ASPECTS

Saipum village is situated at the foothills of the southern ranges of Manipur, Major parts of the village are occupied by rugged and uneven terrains/hills with an average elevation of 1000m above MSL. This region enjoys temperate ans salubrious climate. The location is north of Tropic of Cancer in northern hemisphere, it has summer season in March, April and May with warm, hot and sunny weather. Rainy season starts April and last till October during which ample amount rain

(300cm) is received. The winter season is cool and dry. The area is in the Khuga river basin, now under the control of the Khuga Dam located nearby.

VEGETATION

The nature of vegetation of the hill including early hills is said to be sub-tropical deciduous type. Agricultural land (Jhum) constitutes major share of landuse followed by forest cover including bamboo, pine etc.

POPULATION

According to Census 2011 information the location code or village code of Saipum village is 269648. Saipum has a total population of 1,977 peoples, of which male population is 1,517 and female population is 460. There are about 194 houses in Saipum village. Kwakta is nearest town to Saipum which is approximately 12km away. Saipum Local Language is Meiteilon (manipuri).

In Saipum village population of children with age 0-6 is 115 which makes up 5.82 % of total population of village. Average Sex Ratio of Saipum village is 303 which is lower than Manipur state average of 985. Child Sex Ratio for the Saipum as per census is 1054, higher than Manipur average of 930. Saipum village has higher literacy rate compared to Manipur. In 2011, literacy rate of Saipum village was 94.52 % compared to 76.94 % of Manipur. In Saipum Male literacy stands at 97.81 % while female literacy rate was 82.54%.

As per constitution of India and Panchyati Raaj Act, Saipum village is administrated by Sarpanch (Head of Village) who is elected representative of village. Our website, don't have information about schools and hospital in Saipum village. Saipum village of Churachandpur has substantial population of Schedule Tribe (ST). Schedule Tribe (ST) constitutes 33.64 % while Schedule Caste (SC) were 0.20 % of total population in Saipum village. The village is inhabited by several Kuki and Zomi people more but recently the Meiteis have started settling in the village.

OCCUPATIONAL STRUCTURE

In Saipum village out of total population, 1375 were engaged in work activities, 92,44 % of workers describe their work as Main Work (Employment or Earning more than 6 Months) while 7.56 % were involved in Marginal activity providing livelihood for less than 6 months. Of 1375 workers engaged in Main Work, 125 were cultivators (owner or co-owner). Main occupation of the villagers is cultivation. Major producing crops are paddy, maize and ginger.

SOCIAL AND CULTURAL ASPECTS

Housing is one of the basic necessities of human well-being. While analysing the housing condition, focus will be on three aspects: (a) households possessing individual house and those who live in rented house; (b) the qualitative aspect of the dwellings shall be analysed, which include the type of the house: kutcha (thatch-roof), kutcha (tin-roof), concrete wall (tin-roof), pucca (RCC) houses, ventilation quality and sanitation system in the house; and (c) finally, the size of the house and the homestead. Most houses have toilet facility except a quarter of the household do not have access to safety toilets. The quality of water availability has been observed on the basis of the main source of drinking water supply to the household. In the study area the main source of drinking water is public tap (48.02 per cent), followed by open sources (21.49 per cent) and dug-well (19.66 per cent). The share of water obtained from hand-pump/bore-well is 10.82 per cent. Most of the households have electricity connection.

FINDINGS & CONCLUSION

Majority of the people in rural areas live in kutcha (thatch-roof) houses. A substantial proportion of households in the study area still do not have access to safety toilets. Nearly 80 per cent of the households in the district have bad quality ventilation in the house which could be due to ignorance, negligence and financial constraints on the part of the people regarding the importance of proper ventilation set up to enhance the quality of life. The main source of drinking water in the district is that of public tap, followed by open sources, dug-well and hand-pump/bore-well. Almost half of the households in the study do not have electricity connection in the house. This reflects the underdeveloped nature of district in terms of electricity supply.



DEPARTMENT OF ZOOLOGY Y.K. COLLEGE, WANGJING

STUDY TOUR: KEIBUL LAMJAO NATIONAL PARK (2019-2020)

George

Submitted to: Department of Zoology Y.K.C. Wangjing

Submitted by: Yumnam Dayananda Meitei Uni. Roll no: 9104282 1st Semester



Department of Zoology Y.K. College, Wangjing

Certificate of Larticipation

This is presented to

Jumnam Dayananda of 1st Semester

For his/her active participation in the study tour to

Reibul Lamjao National Park conducted by the Zoology

Department of Y.K. College, Wangjing on November 2019.

Date:

Study tour In-charge

Dr. Shatter Shah

Assistant Professor

Y.K. College, Wangjing

Zemie

Dr. M. Chinamien Chanu

Associate Brofessor

HOD, Zoology Department

Y. K. College Wangiriy

PREFACE

A study tour to Keibul Lamjao National park was conducted by the Zoology Department of Y.K. College, Wangjing. This report is based on my experience of that tour.

We got to experienced first hand the flora and fauna of this serene national park and expand our knowledge on how to conserve the endangered species like the Sangai.

I hope this report reflects and informs the reader to care about nature, animal and the ever changing environment we are facing today.

ACKNOWLEDGEMENT

I would like to show my special gratitude towards Dr. M. Chinamen Chanu (HOD), Dr. Shatter Shah and Dr. L. Gopen Singh of Y.K.College, Wangjing for providing me with such a great study tour to Keibul Lamjao National Park and making it possible for me to write down a report on it.

I would like to thank all my friends who were there to extend help in my project. I would love to thank my parents and family members for all the love and support they have been giving to me.

Last but not the least, a big thanks to all who were there for me. Without you all, my project would not have completed successfully.

CONTENT

- 1.Introduction
- 2.Observation
- Climatic conditions of Keibul Lamjao National Park
- · Flora and fauna
- 3. Threats

- 4.Conservation
- 5.Conclusion

KEIBUL LAMJAO NATIONAL PARK

INTRODUCTION

The Keibul Lamjao National Park is a national park in the Bishnupur District of the state of Manipur in India. It is 40 km2 (15.4 sq mi) in area, the only floating park in the world, located in North East India, and an integral part of Loktak Lake.

It was established as a National Park in the year of 1977. The park is situated on the southern shore of the Loktak Lake – the largest fresh water lake in Eastern India, which has been declared a Ramsar site. The fauna in the park is also rare and unique.

Rare wild cats like the marbled cat and the Asian golden cat are occasionally seen in the national park. Other animals like the Himalayan black bear and the Malayan bear are also seen. A variety of fishes and reptiles like tortoises, snakes like viper and cobras are also found.

It lies on the southeastern side of the Loktak lake lies the Keibul Lamjao National Park. It is the only floating National Park in the world and this is because of the phumdis. Islands formed by mats of dense aquatic grass gives it an appearance of floating on the lake.

The thickness of phumdi varies from few centimeters to two meters. The phumdi floats with 4/5 part under water.

Unlike other land-based national parks, this park floats on water. 20% of the total thickness of phumdis stays above, on the surface of water. So now we can see that Keibul Lamjao is an integral and a big part of Loktak Lake. It is as big as 40 square kilometers in area. Thambal, loklei, pullei, tou, ishing kambong and kabokang are the most abundant aquatic plants growing in the park and some of them are actually edible. Migratory birds coming from other parts of India take shelter in the park during winter season. To name some we have Spotbill duck, Bluewinged teal, Black kite and Skylark. Hog deer, Wild boar, Flying fox, Tortoise, Water cobra, Jungle, etc. are found too in this national park. Manipur forest department is doing everything possible to safeguard Keibul Lamjao as national parks come under its jurisdiction. Nobody is allowed to go inside the park, collect plants and fodders, without permission from the government. Hunting and killing of animals are strictly prohibited.

There is more to talk than just the floating characteristics of the park. It is the tiniest bit of the uniqueness the park has. From being a wildlife sanctuary in 1966 to becoming a national park in 1977. In 1839 this specie was discovered and after that in 1951 it is reported to be extinct, but after that it is rediscovered and now Keibul Lamjao is only home to this unique deer specie which attracts a large number of tourists to Keibul Lamjao National Park.

Do you have any idea what is so special about this place? There's only reason and that is Sangai. It is called Eld's deer in English and Cervus eldii eldii is its scientific name. Keibul Lamjao is about Sangai and only

Sangai. We will find all these animals like fox, cobra, tortoise, bear and monkey in some or the other national park and we already know a lot about them too. But this 'Sangai' is nowhere to be found in the world except in Manipur's Keibul Lamjao. Many people do not know about this endangered deer and even about its existence. So, in order to conserve Sangai and its rare habitat, I am writing on Sangai extensively under this topic.

We have heard of legends that says a man named Pudangkoi Khutkoiba was transform into a Sangai in ancient times. When predators chase this animal, they run very fast and also at the same time look back at the predator to maintain a good distance. This above described term, in Meitei Language is somewhat similar with the word 'Sangai' and that is why the name. Their most common color is brown. We can find horns on the heads of males but not on females. The horns are in no way similar with other deer. They are not very comfortable staying in large group, at maximum a Sangai will be with three other Sangais. They also stay with wild boar because of the same food they have i.e. phumdis. There is no such thing like an exact place for shelter, the place where they eat during the daytime is the same place they sleep at night. Sangais have good sense of smell and hearing ability. Locking horns is their way of playing and socializing. The parents give birth to only a baby Sangai a year and that's why we do not see rapid rise in its population. Keibul Lamjao helps Sangai in increasing its population enormously because the habitat

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is the best suited for them. The number of Sangai was only 14 in 1975 but the number at the start of 2021 showed more than 260, which is quite encouraging. It is the duty of each one of us to protect and conserve our state animal, Sangai, at any cost.

Assaul

OBSERVATION

Climatic conditions of Keibul Lamjao National Park

The climatic condition prevailing here has a vast range of temperatures ranging from 34.4 degree Celsius in summer to as low as 1.7 degree Celsius in winter. This Park also gets enough rainfall during the rainy season and has a recorded maximum humidity of 81%, the lowest being 49% in March.

Flora and fauna

Principal highlight of the Park is its flora and fauna. There is a range of Aquatic Flora available here which includes wild rice, khiomom, singnang, phuma, pulldi, thamba, you, lokei, kabokang, tinhou, etc. The above listed Flora had been recorded in floating as well as sinking phumdis. Vegetation also closed on the floating decomposed vegetation which includes reeds, grasses and other plans. While the sinking phumdi has vegetation which have sunk to the bottom of the lake. However the three Hills surrounding the park are now denuded of most of the vegetation.

The fauna of the area also present a pandora's box of different species.

There are brow antlered deers also known as the sangai which is one of the principal highlights of the park. Other mammals found here include Hog deer, Wild Boar, large Indian civet, Fox, Jungle cat, Golden Cat, bamboo rat, flying Fox, sambar and many more.

The water bodies here also embody a variety of fishes and aquatic animals including common carp, punctatus, striata, etc. Among the amphibians and reptiles, kneel back tortoises, viper krait cobra water cobra banded krait and various other endangered species are found here. Range of different Birds species are also seen in this Park. These include the east Himalayan pied Kingfisher, the black kite, lesser skylark, Northern Hill myna, Burmese pied myna, North Indian black drongo, lesser Eastern Jungle crow, yellow headed wagtail, spot billed duck, blue winged teal, Indian white breasted waterhen, Crimson breasted pied Woodpecker, and threatened hooded crane.

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Threats

Since modernisation man has been tirelessly putting efforts in order to exploit the nature for his own advantage. We have not left the animals too. Endangered species are hunted as well as smuggled from the nation to abroad just for the purpose of earning money.

Because the area is a marshy land, the water quality has been deteriorating as supported by the corresponding pH values. The reason for poor quality is usually because of the pollutants from the towns joining into the lake, the excessive and indiscriminate use of chemical fertilizers and pesticides in the surrounding land area, accumulation of water, forestation which further causes soil erosion and routing of vegetation due to marshy land.

There are other threats too which include permanent flooding because of the thickness of the phumdis which is the result of the Ithai Barrage under the Loktak Multipurpose project.

The hydroelectric power plants constructed on the lake cause back flow of water from the Khordak River and discharge from other lakes and streams with settle down on the lake bed during the dry season.

The Loktak Lake of the National Park has provided for the subsistence of the local people giving them fish vegetation fruits etc. These also generate a small amount of revenue for the local people. Environment inning permanently high levels of water for belly ache will negatively affect the interests of the people of the area.

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There are also boating options around to take a look at the flora and fauna of the park. The place also has quite a few trekking trails worth the time and effort for the beautiful landscapes.

Conservation

In order to protect the lake and the Keibul Lamjao national park the government has taken many initiatives. High places have been made for saving the animals in times of floods. The theft of the valuable Timber and firewood food and fodder has been completely stopped.

Eco tourism has been increased as well as General awareness is being increased. The forest department has also taken several steps in conjunction with the Manipur government which include: Construction of fence border of the more important parts of the path to prevent the human exploitation.

Various checkpoints have been made at the most important places of the lake and the park for the purpose of enhanced security.

Conclusion

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In the month of spring for six days, locals celebrate the YaoTsang festival where you can witness many events as the city comes out in full celebration. This is also the time we can wines the various delicacies here. The park also has many shopping options that we can explore throughout our trips.

The Keibul Lamjao National Park is stunning place with some rare species of flora and fauna.

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DEPARTMENT OF ZOOLOGY Y.K. COLLEGE, WANGJING

PROJECT WORK: STUDY OF LOCALLY FOUND FISHES.

Submitted to: Department of Zoology Y.K.C. Wangjing

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Submitted by: Ronal Okram Uni. Roll. No. 8105691 4th Semester



Department of Zoology Y.K. College, Wangjing

Gertificate

This is to certify that

Ronal Okram of 4th Semester,

has done his her Project Work titled "Study of Locally Found Fishes" with a keen interest on May 2020, as a part of curriculum of Zoology Department of Y.K. College, Wangjing.

Date:

999999997777999777799777777779777

Project work In-charge
Dr. L. Gopen Singh
Assistant Professor
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Forwarded to finitainen
Dr. M. Chinamen Chanu Laure
Associate Professor

HOD, Zoology Department

Y.K. College Wanging

PREFACE

This report is based on the study conducted on the fishes that were obtained from the Thoubal river.

The Thoubal River originates in the hill ranges of Ukhrul and is an important tributary of the Imphal River. It passes through Yairipok and Thoubal before joining the Imphal at Irong near Mayang-Imphal. The Imphal River rises in the hills of Senapati district and flows south.

And I chose Thoubal river as it is situated right in front of my house and they provide very good fishing ground for a variety of fishes are found in

The study was conducted at home due to the covid-19 pandemic with the help of my professors online and the fishes was studied in detailed.

this river.

ACKNOWLEDGEMENT

I am glad that I am able to finish my Project work successfully in time. I would like to show my sheer affection to Dr. M. Chinamen Chanu (HOD), Dr. Shatter Shah and Dr. L. Gopen Singh of Y.K.College, Wangjing for giving me a wonderful opportunity to work on these project entitled "Study of locally found fishes".

I would like to thank all my friends who were there to extend help in my project. I would love to thank my parents and family members for all the love and support they have been giving to me.

Last but not the least, I would like to express my deepest appreciation to all those who've provided me the possibility to have a wonderful project work even during these tough times of covid-19 pandemic.

CONTENT

- 1. Introduction
- 2. Materials and methods
- 3. Observation: Collection and classification of endemic fishes
- Ngasang
- Ngaki jou
- Ngamu
- Ngamhai
- Nylon Nga
- Ngapema
- Kuri

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• Mukanga

INTRODUCTION

Fish civilisation enjoys a very special consideration and place in human civilisation from time immemorial. Its food value gastronomic culinary and nutritions brings it to the fore; many species of fish rank in the category of gourmet per excellence. A sizeable number of food fish species, both fresh water and salt water are put in the category of excellence, very good, good and fair, depending upon local, regional or national consideration of taste, preferences and eating habit. has enormous potential resources teaming with fish.

India has enormous potential resources teaming with fish. A large part of the country is maritime engaged in traditional fishing in marine water from ages. The inland fishing is also time old practice in the extensive network of fresh water. India ranks first among the first ten largest fish producing countries of the world.

In Manipur fish enjoys a very special place as food commodity. As many of 137 species of fishes in 27 families and eleven orders are known to occure in Manipur. Out of these 107 species are found in the Barak river system and 82 in the Manipur river system. 50 species are common in both the system, 7 species are found purely endemic in Manipur and 27 species are distributed in Manipur and neighboring areas.

MATERIALS AND METHOD

MATERIALS:

10% Formalin Solution, Jars, Slider, Thread, Specimens, Vernier Callipers etc.

METHOD:

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1. COLLECTION OF THE FISHES

I collected the fishes which are found locally in Manipur from the Thoubal river around 10-12 in the Morning and prepared a list of 17 diffrent fishes which are fresh.

2. PRESERVATION OF FISHES

The fishes were first washed in water, prepared 10% formalin solution in separate jars.

3.IDENTIFICATION OF FISHES

(i) TAXONOMIC IDENTIFICATION

The specimens are first keyed to their proper species designation from standard available keys or check lists. Then the specimens are compared with detailed descriptions, photographs, sketches etc. available from the published sources preferably of the same region or with museum specimens from standard collection for final verification.

(ii) MORPHOMETRIC ANALYSIS

(A) LENGTH OF THE BODY: - Measurement of the length of the body is taken on

a fresh fish which has not yet been deformed owing to rigour mortis. A straight line and not a line following the curvature of the body is used for measurment. A measuring board is used for the purpose

TOTAL LENGTH:- This length represents the maximum elongation of the body from end to end. For this mesurment, mouth is kept closed and the

caudal fin squeezed. For the caudal fin, tip of the longer lobe is used.

STANDARD LENGTH:- It represents the length of the body from the anterior extremity (mouth closed) - Tip of the snout or that of the lower jaw as may be the case to the base of the caudal fin. The base of the caudal is determined by the groove or crease formed when the tail is bent from side to side. It is the most commenest length used in fishery work.

- (B) HEAD LENGTH:- It is the distance in a straight line between the anteriormost part of the snout or the upper tip whichever is extending farthest forward and the posterior edge of the opercular bone.
- (C) WIDTH OF THE BODY:- It represents the distance in straight line between the base of the neutral fin of the fish.
- (D) WIDTH OF THE HEAD:- It repreents the distance in a straight line between the tip of the two opercula.
- (E) EYE DIAMETER: It is the diameter of the eye.

(F) FIN LENGTH AND FIN RAY COUNT:- The diffrent fins are measured in straight lines to give the fin length. The fin ray formula express the count of fin rays in diffrent fins of the body. The fin representation are

D- Dorsal fin

A- Anal fin

C- Caudal fin

P- Pectoral fin

V- Ventral fin

The Roman Numerals express the number of spiner whereas the Arabic Numerals the number of soft rays. Spiner are the rays that are single. Soft rays are the rays that are bilaterally paired segmented and flexible.

(F) FIN LENGTH AND FIN RAY COUNT: The diffrent fins are measured in straight lines to give the fin length. The fin ray formula express the count-of fin rays in diffrent fins of the body. The fin

representation ur

D-Dorsal fin

A- And In

De Canadal fin

Pectoral fin

V-Ventral fin

The Roman Num Numerals the numers are the rays



at are single. Soft at are single. Soft ad flexible.

Ngasang

OBSERVATION

COLLECTION AND CLASSIFICATION OF ENDEMIC FISHES

LOCAL NAME - Ngasang

PHYLUM - Chordata

SUB-PHYLUM - Vertebrata

SUPER-CLASS - Pisces

CLASS - Teleostomi

ORDER - Cypriniforms

FAMILY - Cyprinidae

GENUS - Chela

SPECIES - laubuca

CHARACTERS

Total length: 5.5cm

Length of head: 1.1cm

Standard length: 4.1cm

Height of the body: 0.4cm

Eye-Diameter: 0.3cm

D.10; P-11; V.5; A.23; C.19

Fins are characterised by the following

- i) Dorsal fin commences distinctly behind the origin of anal.
- ii) Pectoral fins do not reach the anal.

iii) Caudal fin is forked.

COLOUR

9999999911199991199999999111999111

It is Silverly with fine black dots over the body.

DISTRIBUTION

It is widely distributed in Northern India, Eastern India, Myanmar etc.

En cerei

in) Caudal fin is forked

RUOJES

it is Silverly with fine black does or or fife body

DISTRIBLETION

It is widely distributed



Ngakijon

LOCAL NAME: Ngaki jou

PHYLUM: Chordata

SUB-PHYLUM: Vertebrata

SUPER-CLASS: Pisces

CIASS: Teleostomi

ORDER: Cypriniforms

FAMILY: Cobitidae

GENUS: Lepidocephalchthys

SPECIES: quntea

CHARACTERS

99999991111799911179911111111111111111

Total length: 7.9cm

Length of head: 1.3cm

Standard length: 6.57cm

Height of the body: 0.66cm

Eye-Diameter: 0.2cm

D:8(2/6); P:8; V:7; A:7; C:16

BARBELS:-TWO pair nostral, one pair maxillary, all longer than the orbit. A fleshy flap from the lower surface of mandible on either side joins the maxillary barbels each with two or other barbels at the tip.

FINS:- Dorsal fin is located opposite the uentral and caudal fins entire.

SCALES:- Minute

COLOUR:- A black band extends from the snout to the tall region. There is a blackocellus above the middle of the base of the caudal fin, placed just above the lateral band. A broad longitudinal black band extends over the whole of the dorsal side begining from the occipital region and reaching over the base of the caudal fin. Caudal and dorsal fins with numerous rows of dark spots. The fish is generally dirty yellowish brown.

DISTRIBUTION

Throughout Northern India and Pakistan.

Mary HE

is a block occiling above the middle of the best of the country fin, placed just above the largest based. A broad longitudinal black band extends over



Ngamu

LOCAL NAME: Ngamu

PHYLUM: Chordata

SUB-PHYLUM: Vertebrata

SUPER-CLASS: Pisces

CIASS: Teleostomi

ORDER: Ophiocephaliformes

FAMILY: Ophiocephalidae

GENUS: Channa

SPECIES: striatus

CHARACTERS

9999997777999777797777777777777777777

Total length: 8.8cm

Length of head: 1.5cm

Standard length: 7.4cm

Height of the body: 1.8cm

Eye-Diameter: 0.4cm

D:34; P:15; V:6; A:22; C:20

SCALES:- Large irregular shaped scales on summit of head.

COLOUR:- Dark greyish or blackish dorsally depending upon the locality; yellowish white beneath cheeks and lower surface of the

mouth spotted with grey or black descend from the sides to the abdomen. Ventral and anal fins greyish,

DISTRIBUTION:- Throughout the plains of India, Pakistan, Srilanka, Myanmar, China, and Philippines.

The Printer of the Property of

DISTRIBUTION of Phrosphout the plains of India, Palciston, Spinnia,





Ngamhai

LOCAL NAME: Ngamhai

PHYLUM: Chordata

SUB-PHYLUM: Vertebrata

SUPER-CLASS: Pisces

CIASS: Teleostomi

ORDER: Perciformes

FAMILY: Centropomidae

GENUS: Chanda

SPECIES: nama

CHARACTERS

Total length: 6.51cm

Length of head: 1.65cm

Standard length: 5.1cm

Height of the body: 0.7cm

Eye-Diameter: 0.6cm

D: 1+7/1/16-17; P:12; V:1/5; A:3/16-18; C:17

Lower jaw is much longer than upper jaw.

FINS: The third dorsal spine is the longest. The rays gradually decrease in length. The third anal spine is the longest, caudal fin is deeply forked.

SCALESte Mining, Laured time indistinct or broken. The dos on the fooduler forms an oblung corried person.



Nylon nga

STATE OF THE PROPERTY OF THE POPULATION OF THE PROPERTY.

DISTRUBULTION :- India, Pakisian, Surrea die.

Lower jaw is much longer than upper jaw.



n length. in is deep in is deep SCALES

Ngahema

LOCAL NAME: Kuri

PHYLUM: Chordata

SUB-PHYLUM: Vertebrata

SUPER-CLASS: Pisces

CIASS: Teleostomi

ORDER: Cypriniformes

FAMILY: Cyprinidae

GENUS: Labeo

SPECIES: gonius

CHARACTERS

Total length: 21.3cm

Length of head: 3.78cm

Standard length: 16.90cm

Height of the body: 5.80cm

Eye-Diameter: 1.15cm

D:17; P:16; V:8; A:7; C:20

Body elongate, its dorsal profile more convex than the slightly projecting beyond mouth devoid of lateral lobe studded with numerous pores. Mouth narrow and sub-inferior, lips thick and fringed with a distinct inner fold in their circumference. Barbels 2 very short pairs.