

CRITERION 1

METRIC NO. 1.3.2

DEPARTMENT OF Zoology

B.Sc. 6th semester

Scanned copies of the completion of project work by students of Zoology Department (B.Sc. 6th semester) on "Insect Collection"

DEPARTMENT OF ZOOLOGY (6th SEMESTER) (Session 2022-23)

The following students of Department of zoology have completed the project work on "Insect Collection" of the college in partial fulfilment of the requirement of syllabus for B.Sc. 6th Semester by Panjab University, Chandigarh for the session 2022-23.

CLASS: B.Sc (6th SEMESTER) (Session 2022-23)					
PROJECT WORK					
S.NO.	ROLL NO.	NAME	PROJECT NAME	PLACE OF WORK	DURATION
1	401	GURPREET KAUR	Insect Collection	G.K.S.M. Govt College, Tanda Urmur	1 month
2	402	NEHA	Insect Collection	G.K.S.M. Govt College, Tanda Urmur	1 month
3	403	KOMAL	Insect Collection	G.K.S.M. Govt College, Tanda Urmur	1 month
4	404	TAJPREET KAUR	Insect Collection	G.K.S.M. Govt College, Tanda Urmur	1 month
5	405	JANVI SHARMA	Insect Collection	G.K.S.M. Govt College, Tanda Urmur	1 month
6	406	SHALINI	Insect Collection	G.K.S.M. Govt College, Tanda Urmur	1 month
7	407	KAMALJOT KAUR	Insect Collection	G.K.S.M. Govt College, Tanda Urmur	1 month
8	408	MANINDER DEEP KAUR	Insect Collection	G.K.S.M. Govt College, Tanda Urmur	1 month
9	409	RAVNEET KAUR	Insect Collection	G.K.S.M. Govt College, Tanda Urmur	1 month
10	410	SANNA MAHEY	Insect Collection	G.K.S.M. Govt College, Tanda Urmur	1 month
11	411	MEENA KUMARI	Insect Collection	G.K.S.M. Govt College, Tanda Urmur	1 month
12	412	JASMEET KAUR	Insect Collection	G.K.S.M. Govt College, Tanda Urmur	1 month
13	502	GURPREET SINGH	Insect Collection	G.K.S.M. Govt College, Tanda Urmur	1 month

HOD
Tajinder Kaur

Jaspreet Kaur
Principal
G.K.S.M. Govt. College
Tanda Urmur (Hsc)

INSECT COLLECTION



Jarvi Sharma
Roll No 405
Project Name:-
Insect collection

The Rice Weevil
(*Callositypebus oryzae*)

C. *oryzae*

Common Yellowfly
(*Chrysopa*)

C. *viridis*

Small fly
(*Chrysopa*)

C. *viridis*

The Ladybird
(*Coccinella*)

C. *septempunctata*

The Yellow fly
(*Chrysopa*)

C. *viridis*

The Grasshopper
(*Dactylotum*)

D. *Dactylotum*

Red Amazon Beetle
(*Colaspis*)

C. *amazonica*

Small fly
(*Chrysopa*)

C. *viridis*

Small fly
(*Chrysopa*)

C. *viridis*

Common fly
(*Chrysopa*)

C. *viridis*

Beetle / Grasshopper
(*Dactylotum*)

D. *Dactylotum*

Effort by - Jyoti Kulkarni of BSc 5th - 6th Sem (Med)
Roll no - 442 Topic - Insect Collection
Submitted to - Prof. Anil Kulkarni

Practicals based on Theory Paper ZOO-502B(ZOO-352B)

1. External morphology and identification marks of the crops and vegetables pests :*Pyrrilla perpusilla* (Sugarcane leaf hopper), *Pectinophora gossypiella* (Pink bollworm), *Leptocoris avaricornis* (Gunbdhy bug) *Hieroglyphus banian* (Paddy grass hopper), *Dacus curbitae* (Pumpkin fruit fly).
2. External morphology and identification marks of the following stored grain pests :*Sitophilus oryzae* (Rice weevil), *Tribolium castaneum* (Rustred flour beetle), *Rhizopertha dominica* (Lesser grain borer/susri), *Trogoderma granarium* (Khapra beetle), *Callosobruchus maculatus* (Pulse beetle/Dhora).
3. External morphology and identification marks of the following insects of Medical/Veterinary importance- Mosquitoes (*Culex*, *Anopheles* and *Aedes*), house fly (*Musca domestica*), blow fly (*Calliphora erythrocephala*), warble fly (*Hypoderma lineatum*) and horse fly (*Tabanus striatus*).
4. Astudy of different types of larvae and pupae of insects through slides, charts etc.
5. **Project- Study of life cycle of any insect.**

OPTION III: INLAND FISHERIES & AQUACULTURE-I (ZOO-502C)**UNIT-I**

- Components of Aquaculture: Capture, Culture, Intensive, Extensive, Semi-Intensive, Pen Culture, Cage Culture.
- Morphology of a typical fish (Carp, Catfish, Eel, Perch)
- Culturable fishes: Characters of culturable fishes, Indian major carps, saltwater fishes, exotic species and air breathing fishes.

UNIT-II

- Structure of mouth of different fishes in relation to feeding habits
- Bionomics of *Labeo rohita*, *Catla catla*, *Cirrhinus mrigala*, *Wallago attu*.
- Food value of Fish (Vitamins, Amino acids, Minerals etc.)

UNIT-III

- Exotic fishes: History, their introduction, morphology, their role in fish culture and impact on native fish fauna.
- Induced Breeding: History, technique, chemicals involved in induced breeding and impact on fish culture.

UNIT-IV

- Pond culture: Construction of pond, types of pond, hydrobiological factors of water and soil of a fish pond, fertilization of pond, maintenance of pond.
- Aquatic weeds and their control both biological and chemical.

Note: Nine questions are to be set. Question No.1 is compulsory consisting of short answer type questions covering the whole syllabus. It will have 8 parts of 1 mark each. Two questions are to be set from each Unit. One question is to be attempted from each Unit. In all, five questions are to be attempted including compulsory one. 50% of the questions are to be split up into 2-4 sub-parts.