

**CRITERION 1**

**METRIC NO. 1.3.2**

**DEPARTMENT OF Zoology**

**B.Sc. 4<sup>th</sup> semester**

**Scanned copies of the completion of project work by students of Zoology Department (B.Sc. 4<sup>th</sup> semester) on “Study on Local fauna”**

## DEPARTMENT OF ZOOLOGY (4th SEMESTER) (Session 2022-23)

The following students of Department of zoology have completed the project work on "Study on Local Fauna" of the college in partial fulfilment of the requirement of syllabus for B.Sc. 4<sup>th</sup> Semester by Panjab University, Chandigarh for the session 2022-23.

CLASS: B.Sc. (4th SEMESTER) (Session 2022-23)					
PROJECT WORK					
S.NO.	ROLL NO.	NAME	PROJECT NAME	PLACE OF WORK	DURATION
1	201	PARMINDER KAUR	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
2	202	ARSHDEEP KAUR	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
3	203	HARMANJOT KAUR	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
4	204	NAVJOT KAUR	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
5	205	SIMRANJIT KAUR	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
6	206	KOMAL KUMARI	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
7	207	HARPREET KAUR	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
8	209	RANJANA KUMARI	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
9	211	DAVINDER KAUR	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
10	212	MONIKA	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
11	215	SUMAN SAINI	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
12	217	BABITA	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
13	218	MANPREET KAUR	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
14	219	DAMANPREET KAUR	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
15	221	DIKSHA	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month
16	301	SONU KUMAR	Study on Local fauna	G.K.S.M. Govt College, Tanda Urmar	1 Month

HOD

Tajinder  
Kaur

Principal  
G.K.S.M. Govt. College  
Tanda Urmar















**Suggested Readings**

1. Taneja, S.K. : Biochemistry & Animal Physiology, Trueman Book Co.,1997.
2. Guyton, A.S. : Text Book of Medical Physiology, 14<sup>th</sup> edition, W.B. Saunders Company, 2020.
3. Robert, K., Murray, R.K., Daryl, M., Granner, K., Victor, W. and Woodwell. : Harper's Biochemistry, 22<sup>nd</sup> edition, Prentice – Hall International, Inc.,1990
4. Nelson, D.L. and Cox, M.M. : Lehninger Principles of Biochemistry, 5<sup>th</sup> edition, W.H., Freeman and Company, New York, 2008.

**PRACTICALS : Practical based on Theory Papers ZOO 301 & 302 (ZOO 251)**

1. Classification up to orders habits, habitats, distinctive characters and economic importance(if any) of the following animals :
 

Urochordata	:	<i>Herdmania, Molgula, Pyrosoma, Doliolum, Salpa &amp; Oikopleura.</i>
Cephalochordata	:	<i>Amphioxus.</i>
Cyclostomata	:	<i>Myxine, Petromyzon &amp; Ammocoetes Larva.</i>
Chondrinchthyes	:	<i>Zygaena (Hammer headed shark), Pristis (Saw fish), Narcine (Electric ray), Trygon, Rhinobatus and Chimaera (Rabbit fish).</i>
Actinoptergii	:	<i>Polypterus, Acipenser, Lepisosteus, Muraena, Mystus, Catla, Hippocampus, Syngnathus, Exocoetus, Anabas, Diodon, Tetradon, cheneis and Solea.</i>
Dipneusti (Dipnoi)	:	<i>Protopterus</i>
Amphibia	:	<i>Uraeotyphlus, Necturus, Amphiuma, Ambystoma and its Axolotl larva, Triton, Salamandra, Hyla, Rhacophorus.</i>
2. Demonstrate the dissection of following animals through video clipping, charts, models etc.
 

<i>Herdmania</i>	:	General anatomy
<i>Labeo</i>	:	Digestive, reproductive systems, heart, afferent and efferent branchial arteries and cranial nerves.
3. Study of the skeleton of *Labeo, Hoplobatrachus Tigerinus*(frog)
4. Study of the following prepared slides :  
T.S. *Amphioxus* through various regions.  
Spicules & pharynx of *Herdmania* & pharynx of *Amphioxus*.
5. Study of the following prepared slides :  
Histology of frog (compound tissues).
6. Recording of blood pressure of man
7. Estimation of haemoglobin content in blood.
8. Estimation of the presence of amylase in saliva, denaturation by pH and temperature.
9. Field study : Visit to a fossil Park/Museum. Familiarity with the local vertebrate fauna and report.

**Guidelines for conduct of Practical Examination**

Max. Marks	: 20
Practical Exam.	: 18 marks
Internal Assessment	: 2 marks
Time	: 3 hours

1. Draw a labeled sketch of -----system of given animal and explain it to the examiner. (2)
  2. Identify the given bones A & B. Make labelled sketches of their respective \_\_\_\_\_ views. (2)
  3. Minor experiment of physiology related to blood /osmosis /diffusion. (1½)
  4. Perform the given physiology experiment, write the procedure and show it to the examiner such as identification of some food stuffs/presence of chloride or glucose in urine etc./Salivary Amylase/Blood. (2)
  5. Identify the slides F-H giving two reasons for each identification. (2)
  6. Identify and classify the specimens F to I upto orders. Write a short note on habitat of F, special feature of G, feeding habit of H and economic importance of specimen I. (4½)
  7. Viva-voce. (2)
  8. Note book and Project Report. (2)
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