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**SCHEME OF EXAMINATION
&
SYLLABUS
of
M.Sc. (Zoology) Semester Exam
UNDER
FACULTY OF SCIENCE
Session 2021-22**

**(Approved by Board of Studies)
Effective from June 2021**

**HEMCHAND YADAV VISHWAVIDYALAYA, DURG
CHHATTISGARH
SYLLABUS FOR 2021-22
M. Sc. ZOOLOGY**

Semester	Paper	Title	External marks	Internal marks	Credit
First DEC, 2017	I	Biosystematics, Taxonomy and Biodiversity	80	20	4
	II	Structure and Function of Invertebrates	80	20	4
	III	Population Genetics and Evolution	80	20	4
	IV	Tools & Techniques in Biology	80	20	4
	LC-I	Lab Course I (Based on paper I & II)	80	20	2
	LC-II	Lab Course II (Based on paper III & IV)	80	20	2
Second MAY- JUNE, 2018	I	Molecular Cell Biology and Biotechnology	80	20	4
	II	General Physiology and Endocrinology	80	20	4
	III	Development Biology	80	20	4
	IV	Quantitative Biology and Computer Application	80	20	4
	LC-I	Lab Course I (Based on paper I & II)	80	20	2
	LC-II	Lab Course II (Based on paper III & IV)	80	20	2
Third DEC, 2018	I	Comparative Anatomy of Vertebrates	80	20	4
	II	Animal Behavior	80	20	4
	III	Environment Physiology and Population Ecology	80	20	4
	IV	Immunology and Parasitism	80	20	4
	LC-I	Lab Course I (Based on paper I & II)	80	20	2
	LC-II	Lab Course II (Based on paper III & IV)	80	20	2

S. S. Saini

R. S.

V. K. Saini

Dr. S. S. Saini

Dr. S. S. Saini

Fourth MAY- JUNE, 2019	I	Biochemistry	80	20	4
	II	Neurophysiology	80	20	4
Optional papers (Group I)*					
	I	Fish (ichthyology) structure and function	80	20	4
	II	Cell biology	80	20	4
	III	Entomology	80	20	4
	IV	Wild life conservation	80	20	4
	V	Biology of Vertebrate immune system	80	20	4
Optional paper (Group II)*					
	I	Pisci culture and economic importance of fishes (Ichthyology)	80	20	4
	II	Cellular organization and molecular organization	80	20	4
	III	Applied entomology	80	20	4
	IV	Environment and Biodiversity conservation	80	20	4
	V	Molecular endocrinology and reproductive technology	80	20	4
	LC-I	Lab Course I (Based on paper I & II)	80	20	2
	LC-II	Lab Course I (Based on paper III & IV)	80	20	2
Total			1920	480	80

* Student has to choose one optional paper (special paper) from group I & group II.

* Each theory paper will have 5 questions of equal marks. First question will encompass all the four units without any internal choice, whereas rest questions will be unit wise with internal choice.

UGC guideline should be followed strictly for animal dissections. Animal dissections can be performed by using alternate methods like clay modeling.

**The respective teachers on each paper will ensure the internal evaluation by a class test and a seminar/poster presentation of 10 marks each and submit the foil and counter foil to the HOD by the end the activity.

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