

UNIVERSITY OF CALCUTTA

Notification No.CSR/05/2024

It is notified for information of all concerned that in terms of the provisions of Section 54 of the Calcutta University Act, 1979, (as amended), and, in the exercise of her powers under 9(6) of the said Act, the Vice-Chancellor has, by an order dated 17.01.2024, approved the following amendments of Zoology of Semester wise UG Courses of studies, as applicable under CCF,2022, under this University, as laid down in the accompanying pamphlet.

- New Revised Modalities / Question Pattern & Marks Distribution of Zoology
 (after incorporating some amendments in the previous notification
 CSR/51/2023, dt. 29.12.2023)
- New Revised syllabus of IDC paper of Zoology (IDC1, Sem-1, after incorporating some amendments in the previous notification CSR/13/2023, dt. 12.07.2023)

The above shall take effect from the academic session 2023-2024 and onwards.

SENATE HOUSE

Prof.(Dr.) Debasis Das

Kolkata-700073

Registrar

25.01.2024

Under CCF, 2022

All semesters

Zoology Major Core Papers:

Full marks: 75(Section A + Section B + Section C) = 20+15+40

Time: 3 hours

Examination/Paper	Section A	Section B	Section B	Comment
Zoology Major Core Theory	Total 15 questions will be given by question setters Students will attempt 10 question Questions will be set from all the units Each question will carry 2 marks (10X2)=20	 Total 5 short notes to be given by question setters. Students will attempt 3 short notes Short notes can be given from any of the units. No two short notes can be from the same unit Each short notes will carry 5 marks (3X5)=15 	 Total 7 questions to be given by question setters. Students will attempt 4 questions. Each carrying 10 marks. Questions can be given from any of the units. Each question should have part questions. Each question will carry 10 marks (10X4)=40 	Total marks 20+15+40=75 Examination would be taken at away center. Question paper will be arranged by the University. QS, MOD, HE and Examiners will be recommended by UGBOS.
Zoology Major Core Practical	•Experiments •Identifications 20 Marks	Lab note book/Field report/Dissertation 5 marks	No marks allotted for Viva voce	Total Marks 25 Examination should be taken at away center with two internal and one external examiners recommended
				by UGBOS. Questions will be set by UGBOS

Zoology Major Skill Enhancement Course (SEC) Papers:

Time 2 hours

Multiple Choice Questions

	Section A	Section B		
Zoology Major	Total 30	Total 35 questions	Total marks 75	Answer would be
SEC	questions will be	will be set by		given in OMR
Theory	set by question	question setter.		sheet.
,	setter.	4		Examination
	Students will	Students will		should be taken
	attempt 25	attempt 25		at away center.
	questions.	questions.		
	Each carrying 1	'		
	marks.	Each question will		QS, MOD, HE and
	Questions should	carry 2 marks.		Examiners will be
	be MCQ with	Questions will		recommended by
	four alternative	cover all the units.		UGBOS.
	options with no	Questions should		
	negative	be MCQ with four		
	alternative.	alternative options		
	Questions will	with no negative		
	cover all the	alternative.		
	units.	Questions will		
	25X1=25	cover all the units.		
		25X2=50		
Zoology Major	Experiments	Lab note	No marks	Total Marks 25
SEC	 Identifications 	book/Field	allotted for Viva	Examination
		report/Dissertation	voce	should be taken
Practical	20 Marks			at away center
				with two internal
		5 marks		and one external
				examiners
				recommended by
				UGBOS.
				Questions will be
				set by UGBOS

Zoology Minor Core Papers

Full marks: 75 (Section A + Section B + Section C) = 20+15+40

Time: 3 hours

Examination/Paper	Section A	Section B	Section B	Comment
Zoology Minor Core Theory	 Total 15 questions will be given by question setters Students will attempt 10 question Questions will be set from all the units Each question will carry 2 marks (10X2)=20 	 Total 5 short notes to be given by question setters. Students will attempt 3 short notes Short notes can be given from any of the units. No two short notes can be from the same unit Each short notes will carry 5 marks (3X5)=15 	 Total 7 questions to be given by question setters. Students will attempt 4 questions. Each carrying 10 marks. Questions can be given from any of the units. Each question should have part questions. Each question will carry 10 marks (10X4)=40 	Total marks 20+15+40=75 Examination would be taken at away center. QS, MOD, HE and Examiners will be recommended by UGBOS.
Zoology minor	• Experiments	Lab note	No marks	Total Marks 25
Core Practical	•Identifications 20 Marks	book/Field report/Dissertation 5 marks	allotted for Viva voce	Examination should be taken at homecenter with one internal and one external examiners. External examiner will be arranged by the college. Questions will be arranged by UGBOS

Zoology Multi-disciplinary Papers

Examination/Paper type	Section A	Section B	Section B	Comment
Zoology MDC Core Major/ Minor Theory	Total 15 questions will be given by question setters Students will attempt 10 question Questions will be set from all the units Each question will carry 2 marks (10X2)=20	 Total 5 short notes to be given by question setters. Students will attempt 3 short notes Short notes can be given from any of the units. No two short notes can be from the same unit Each short notes will carry 5 marks (3X5)=15 	 Total 7 questions to be given by question setters. Students will attempt 4 questions. Questions can be given from any of the units. Each question should have part questions. Each question will carry 10 marks (10X4)=40 	Total marks 20+15+40=75 Examination would be taken at awaycenter. QS, MOD, HE and Examiners will be recommended by UGBOS.
Zoology MDC Core Practical	• Experiments • Identifications 20 Marks	Lab note book/Field report/Dissertation 5 marks	No marks allotted for Viva voce	Total Marks 25 Examination should be taken at homecenter with one internal and one external examiners. External Examiner will be arranged by the college. Question format will be provided by UGBOS

	Section A	Section B		
Zoology MDC	Total 30	Total 35 questions	Total marks 75	Questions would
SEC	questions will be	will be set by		be set by internal
Theory	set by question	question setter.		teachers
	setter.			
	Students will	Students will		Students will
	attempt 25	attempt 25		write only the
	questions.	questions.		correct
	Each carrying 1			alternative
	marks.	Each question will		against the
	Questions should	carry 2 marks.		question
	be MCQ with	Questions will		number.
	four alternative	cover all the units.		
	options with no	Questions should		Examination
	negative	be MCQ with four		should be taken
	alternative.	alternative options		at homecenter.
	Questions will	with no negative		
	cover all the	alternative.		Questions will be
	units.	Questions will		arranged by
	25X1=25	cover all the units.		college teachers.
		25X2=50		
Zoology MDC	Experiments	Lab note	No marks	Total Marks 25
SEC	Identifications	book/Field	allotted for Viva	Examination
		report/Dissertation	voce	should be taken
Practical	20 Marks			at homecenter
				with one internal
		5 marks		and one external
				examiners.
				External
				examiners will be
				arranged by the
				college.
				Question format
				will be given by
				UGBOS

Zoology Interdisciplinary course (IDC)

	Section A	Section B		
Zoology IDC	Total 30	Total 30 questions	Total marks 50	Questions would
Theory	questions will be	will be set by		be set by internal
	set by question	question setter.		teachers.
	setter.			
	Students will	Students will		Students will
	attempt 25	attempt 25		write only the
	questions.	questions.		correct
	Each carrying 1			alternative
	marks.	Each question will		against the
	Questions should	carry 1 marks.		question number.
	be MCQ with	Questions will		
	four alternative	cover all the units.		Examination
	options with no	Questions should		should be taken
	negative	be MCQ with four		at home center.
	alternative.	alternative options		
	Questions will	with no negative		Questions will be
	cover all the	alternative.		arranged by
	units.	Questions will		college teachers.
	25X1=25	cover all the units.		
		25X1=50		
Zoology IDC	Experiments	Lab note	No marks	Total Marks 25
Practical	Identifications	book/Field	allotted for Viva	Examination
		report/Dissertation	voce	should be taken
	20 Marks			at homecenter
				with two internal
		5 marks		examiners as
				recommended by
				HOD of
				respective
				college.
				Question format
				will be given by
				UGBOS.

The University will offer Zoology related IDC as the Paper of Animal Science which will be selected by Students pursuing Major and Minor Courses other than Zoology

PART I: SEMESTER 1
IDC-1: Animal Biology
IDC-1-TH

Pull Marks 50	rs:			
Phylum Characters and example: [Non-chordates-Porifera, Cnidaria, Ctenophora, Platyhelminthes, Nemathelminthes, Annelida, Arthropoda, Mollusca and Echinodermata];				
Chordata				
Unit 2: Genetics 12	e de la composition della comp			
1. Mendelian Principles and Laws of inheritance				
2. Linkage and Recombination basic Concepts				
3. Sex Determination with reference to <i>Drosophila</i> [only genic balance theory]				
4. Chromosomal Aberration [Structural and Numerical]				
Unit 3: Biodiversity and Wildlife 15				
1. Biodiversity: Definition, types and value				
2. Biodiversity: Indices [Shannon & Simpson]				
3. Conservation: in situ and ex situ [outline idea]				
4. Conservation Priority: Hotspot, Megadiversity, Sensitive Ecosystem				
5. Indigenous Knowledge and PBR: Basic Concepts				
Unit 4: Insect Vectors				
1. Concept of Vector: Biological and Mechanical Vectors with examples	Resource;			
2. Disease cycle & Reservoir Concept				
3. Major Vectors: Mosquito (Anopheles sp. & Aedes sp.) Life cycle, control, role as vector.				
Unit 5: Laboratory techniques and Instrumentation				
1. Basics of Light Microscopy				
2. Principles and Application of Colorimetry				
3. Principles and application of Ultracentrifugation				

Animal Biology Lab: IDC-1-P

Karyotype analysis of Klinefelter, Down, Turner, Edward & Patau Syndrome Identification (Phylum and specimen characters): Amoeba, Paramoecium, Sycon, Neptune's Cup, Taenia, Ascaris, Nereis, Pheretima, Pila, Lamelledens, Penaeus, Macrobrachium, Musca, Anopheles, Culex, Asterias. One Local-Outdoor Trip for Biodiversity Studies.