**LSE-09** 

#### ASSIGNMENT BOOKLET

**Bachelor's Degree Programme (B.Sc.)** 

### Elective Course in Animal Diversity-I

Valid from 1<sup>st</sup> January 2025 to 31<sup>st</sup> December 2025

It is compulsory to submit the Assignment before filling in the Term-End Examination Form.

#### PLEASE NOTE

- You can take electives ('56 to 64' credits) from a minimum of TWO and a maximum of FOUR science disciplines, viz. Physics, Chemistry, Life Sciences and Mathematics.
- You can opt for elective courses worth a MINIMUM OF 8 CREDITS and a MAXIMUM OF 48 CREDITS from any of these four disciplines.
- At least 25% of the total credits that you register for in the elective courses from Life Sciences, Chemistry and Physics disciplines must be from the laboratory courses. For example, if you opt for a total of 64 credits of electives in these 3 disciplines, at least 16 credits 'out of those 64 credits' should be from lab courses.
- You cannot appear in the Term-End Examination of any course without registering for the course. Otherwise, your result will not be declared and the responsibility will be yours.



School of Sciences Indira Gandhi National Open University Maidan Garhi, New Delhi-110068

(2025)

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format:

We hope you are familiar with the system of evaluation to be followed for the Bachelor's Degree Programme. At this stage you may probably like to re-read the section on assignments for Elective Courses in the Programme Guide that we have sent you after your enrolment. A weightage of 30 per cent, as you are aware, has been earmarked for continuous evaluation which would consist of **one tutor-marked assignment (TMA)** for this course.

#### **Instructions for Formatting Your Assignments**

On top of the first page of your TMA answer sheet, please write the details exactly in the following

Before attempting the assignment please read the following instructions carefully.

Tormat.	
	ENROLMENT NO.:
	NAME:
	ADDRESS:
COURSE CODE :	
COURSE TITLE :	
ASSIGNMENT NO.:	
STUDY CENTRE :	DATE:

## PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY.

- 2) Use only foolscap size writing paper (but not of very thin variety) for writing your answers.
- 3) Leave 4 cm margin on the left, top and bottom of your answer sheet.
- 4) Your answers should be precise.
- 5) While solving problems, clearly indicate the question number along with the part being solved. Be precise.
- 6) This assignment will remain valid for one year from January 1, 2025 to December 31, 2025. However, you are advised to submit it within 12 weeks of receiving this booklet to accomplish its purpose as a teaching-tool. Answer sheets received after the due date shall not be accepted.
- 7) You cannot fill the exam form for this course until you have submitted this assignment.

We strongly feel that you should retain a copy of your assignment response to avoid any unforeseen situation and append, if possible, a photocopy of this booklet with your response.

We wish you good luck!

# ASSIGNMENT (Tutor Marked Assignment)

Course Code: LSE-09 Assignment Code: LSE-09/TMA/2025

**Maximum Marks: 100** 

1.	Describe the biological rhythm in non-chordates.		(10)
2.	Discuss the different larval forms found in echinoderms.		(10)
3.	Describe the five-kingdom classification as proposed by Whittaker and discuss its limitations.		(10)
4.	Write short notes on the following:		(2½×4=10)
	i)	Coral reefs	
	ii)	Polymorphism	
	iii)	Nerve Cell	
	iv)	Role of hormones in insects	
5.	Describe the structural organization of body of the members of class Insecta. Describe the types of mouth parts present in them.		(10)
6.	a)	Honey bees show a very peculiar way of communication. Explain.	(5)
	b)	What are parasitic platyhelminthes? Describe the life cycle of any one of them.	(5)
7.	Explain open and closed type of circulatory systems found in higher metazoans.		(10)
8.	Describe the ways in which non-chordates are beneficial to humans.		(10)
9.	a)	Name some social insects. Describe their important characteristics.	(5)
	b)	Describe the various pattern of sexual reproduction found in non-chordates.	(5)
10.	Describe the adaptive radiation in Arthropods.		(10)