

ASSIGNMENT BOOKLET**Bachelor's Degree Programme (B.Sc.)****Elective Course
in
Animal Diversity-II****Valid from 1st January 2023 to 31st December 2023****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**

(2023)

Dear Student,

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

Before attempting the assignment please read the following instructions carefully.

- 1) On top of the first page of your TMA answer sheet, please write the details exactly in the following format:

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, 2023 to December 31, 2023.** 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-10
Assignment Code: LSE-10/TMA/2023
Maximum Marks: 100

1. a) Describe the general characteristics of class Agnatha. (5×2=10)
b) List some important features/adaptations that help the bird in flying.
2. a) Describe the peculiar features found in epidermis of mammalian skin. (5×2=10)
b) Explain how digestive system of cartilaginous fishes different from that of bony fishes?
3. Draw well labelled diagrams of the following : (2½×4=10)
 - i) Mammalian stomach
 - ii) Digestive tract of human
 - iii) Ventral view of mammalian heart
 - iv) Structure of human eye
4. Describe in brief the various parts of female genital system of vertebrates (10)
5. a) Describe the structure of uriniferous tubule. (5×2=10)
b) Describe some specialized sense organs found in animals.
6. Write short notes on the following: (2½×4=10)
 - i) Functions of urinary system
 - ii) Grey and white matter of the brain
 - iii) Olfactory organs
 - iv) Pituitary gland
7. Describe the functional adaptations of skeleton. (10)
8. a) Explain the innate behavior in animals. (5×2=10)
b) What is mimicry? Describe its different types.
9. Describe various means of defense used by animals. (10)
10. a) List the general characters of phylum chordata. How are chordates different from invertebrates? (5×2=10)
b) How is respiratory system of amphibians different from that of reptiles? Explain.