ASSIGNMENT BOOKLET

Bachelor's Degree Programme (B.Sc.)

Elective Course
in
Animal Diversity-I

Valid from 1ˢᵗ January 2024 to 31ˢᵗ December 2024

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.**

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THE PEOPLE'S UNIVERSITY

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

(2024)

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, 2024 to December 31, 2024**. 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)

1. Describe the adaptive radiation in Polychaeta by citing examples. (10)

2. Describe the biological rhythm in non-chordates. (10)

3. Explain the life cycle of malarial parasite in mosquito and human hosts with suitable diagram. (10)

4. a) Enumerate the principal structural specializations of Annelida towards an efficient locomotion. How is the locomotion in a leech different from that in *Nereis* and earthworm? (5)

   b) How is walking movement in arthropods related to the number and arrangement of limbs? (5)

5. Discuss the non chordates yielding industrial products. (10)

6. Discuss the different larval forms found in echinoderms. (10)

7. a) What are the salient features of Porifera? (5)

   b) How are coral reefs formed? (5)

8. Write short notes on the following: (4×5=20)

   (a) Communication through visual in insects

   (b) Chemoreceptors in non-chordates

   (c) Water vascular system in starfish

   (d) Strobillaiton

9. Describe the five kingdom classifications as proposed by Whittaker and discuss its limitations. (10)