LSE-02

ASSIGNMENT BOOKLET

Bachelor's Degree Programme in Science

Elective Course in Ecology

(Valid from 1st January, 2022 to 31st December, 2022)

It is compulsory to submit the Assignment before filling 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 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 onus will be on you.



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

(2022)

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:

	NA	ME : DRESS		
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, 2022 to December 31, 2022. 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) Ecology

Course Code: LSE- 02 Assignment Code: LSE-02/TMA/2022

Maximum Marks: 100

1.	Differentiate between the following:	(2½ x 4)	
	(a) Oligotrophic and Eutrophic lakes	, ,	
	(b) Chamaephytes and cryptophytes		
	(c) Sanctuary and National Park		
	(d) Biomagnification and Bioaccumulation		
2.	Write short notes on the following:	(2½ x 4)	
	(a) Hydrarch		
	(b) Food web		
	(c) Process in succession		
	(d) Causes and consequences of deforestation		
3.	. Draw clear and labelled diagrams of the following:		
	(a) Layer of the atmosphere based on the air temperature.		
	(b) Effects of air pollutants on plants		
	(c) Ecotone		
	(d) Nitrogen cycle		
4.	(a) Write about the defence mechanisms in plants.	(5)	
	(b) Discuss various steps taken for conservation of wildlife.	(5)	
5.	(a) Explain four basic processes which affect the population density.	(5)	
	(b) Write at least five benefits of grasslands.	(5)	
6.	Describe the various kinds of interactions between species with suitable examples.		
7.	Explain the three types of ecological pyramids. Mention their limitations.	(10)	
8.	Explain why species diversity within a given natural habitat is important?		
9.	Discuss the various devices used to control air pollution.		
10.). Discuss any five properties of good soil.		
