

**BBYCT-133**

**ASSIGNMENT BOOKLET**

**Bachelor's Degree Programme**

**(BSCM)**

**(Plant Ecology and Taxonomy)**

**Valid from 1<sup>st</sup> January, 2024 to 31<sup>st</sup> December, 2025**



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

**(2024-2025)**

Dear Student,

Please read the section on assignments in the Programme Guide for B. Sc. that we 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** for this course. The assignment is in this booklet, and it consists of two parts, Part A and B. The total marks of all the parts are 100, of which 35% are needed to pass it.

### Instructions for formatting your Assignments

Before attempting the assignment please read the following instructions carefully:

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

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**ROLL NO.:** .....

**NAME:** .....

**ADDRESS:** .....

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**COURSE CODE:** .....

**COURSE TITLE:** .....

**ASSIGNMENT NO.:** .....

**STUDY CENTRE:** .....

**DATE:** .....

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**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) Solve this assignment, and **submit the complete assignment answer sheets within the due date.**
- 6) The assignment answer sheets are to be submitted to your Study Centre within the due date. **Answer sheets received after the due date shall not be accepted.**  
**We strongly suggest that you retain a copy of your answer sheets.**
- 7) This assignment is **valid from 1<sup>st</sup> January, 2024 to 31<sup>st</sup> December, 2025.** If you have failed in this assignment or fail to submit it by December, 2025, then you need to get the assignment for the year 2026, and submit it as per the instructions given in the Programme Guide.
- 8) **You cannot fill the examination form for this course** until you have submitted this assignment.

We wish you good luck.

## ASSIGNMENT

Course Code: BBYCT-133

Assignment Code: BBYCT-133/TMA/2024-25

Maximum Marks: 100

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<b>Note: Attempt all questions. The marks for each question are indicated against it.</b>	<b>Marks</b>
1. a) Describe the numerical and structural attributes of population.	(5)
b) Discuss the interactions in a community.	(5)
2. a) Discuss the origin and formation of soil.	(5)
b) What are the factors affecting soil formation?	(5)
3. Discuss the different factors affecting distribution of insolation.	(10)
4. Discuss the adaptations in aquatic plants.	(10)
5. a) Discuss the succession in oak forest.	(4)
b) Describe the stages in a hydrosere.	(6)
6. Write a note on taxonomic evidence from phytochemistry.	(10)
7. a) Discuss the salient features of structure of taxonomic hierarchy.	(4)
b) Write a note on the properties of hierarchical system.	(6)
8. a) What are the salient features of preamble of ICN?	(7)
b) What are holotype and neotype?	(3)
9. Write short notes on:	(2½×4=10)
i) Apomorphic and Plesiomorphic Characters	
ii) Biodiversity hotspot areas in India	
iii) Double channel energy flow model	
iv) Carbon cycle	
10. Discuss the analytical characters of a plant community.	(10)