

BBYCT-131

ASSIGNMENT BOOKLET

Bachelor's Degree Programme

(BSCG)

Biodiversity (Microbes, Algae, Fungi and Archegoniates)

Valid from 1st January, 2023 to 31st December, 2023



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

(2023)

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:

ROLL 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) 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 1st January, 2023 to 31st December, 2023.** If you have failed in this assignment or fail to submit it by December, 2023, then you need to get the assignment for the year 2024, 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-131
Assignment Code: BBYCT-131/TMA/2023
Maximum Marks: 100

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- Note: Attempt all questions. The marks for each question are indicated against it.**
- | | | Marks |
|-----|---|------------|
| 1. | a) Describe the structure of tobacco mosaic virus with the help of a well labelled diagram. | (5×2=10) |
| | b) Write a brief note on the mechanism of conjugation in bacteria. | |
| 2. | Give an exhaustive overview of the economic importance of bacteria. | (10) |
| 3. | Describe the morphology and mode of reproduction of <i>Polysiphonia</i> with labelled diagrams. | (10) |
| 4. | a) Write a note on blue green algae as a major source of biofertilizer. | (5×2=10) |
| | b) Describe the structure of basidiocarp of <i>Agaricus</i> with the help of a well labelled diagram. | |
| 5. | a) How do the bryophytes serve as indicators of pH and pollution? | (5×2=10) |
| | b) How pteridophytes are different from bryophytes? Discuss. | |
| 6. | a) Explain the mode of reproduction in <i>Equisetum</i> with special reference to sporangiophore structure. | (5×2=10) |
| | b) Write a note on glossopodium. | |
| 7. | Describe the structure of root and stem of <i>Pinus</i> . Discuss the importance of <i>Pinus</i> as a major source of timber. | (5+5=10) |
| 8. | a) Discuss the mechanism of Crozier and clamp connection in Ascomycota and Basidiomycota. | (5×2=10) |
| | b) What are the symptoms and control measures of early blight of potato? | |
| 9. | a) Describe the different forms of lichen? | (5×2=10) |
| | b) Give a elaborate account about the significance of lichens. | |
| 10. | Write notes on the following: | (2 ½×4=10) |
| | i) Algal blooms | |
| | ii) Endospore | |
| | iii) Petrification | |
| | iv) Gemma cups | |