BBYCT-137

ASSIGNMENT BOOKLET

Bachelor's Degree Programme

(BSCG)

(Plant Physiology and Metabolism)

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,

format:

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 is of 100 marks, of which 35% are needed to pass it.

Instructions for formatting your Assignments

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

Before attempting the assignment please read the following instructions carefully:

	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 1**st **January 2023 to 31**st **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-137

Assignment Code: BBYCT-137/TMA/2023

Maximum Marks: 100

Note: Attempt all questions. The marks for each question are indicated against it.

1.	Defi	ne the following terms:	(2×5=10)	
	i)	Matric potential		
	ii)	Holochrome		
	iii)	Holozyme		
	iv)	Heterocyst		
	v)	Fluorescence		
2.	Describe ABA signaling model to explain stomatal movements with the help of well labelled diagram. (1		(10)	
3.	Hov	v enzyme activity gets altered by inhibitors? Explain.	(10)	
4.	Des	cribe the biochemistry of ammonia assimilation in plants.	(10)	
5.		hat are photosynthetic and non-photosynthetic pigments? Discuss their stribution and role in Plant Kingdom.		
6.	dev	escribe the role that macro and micro nutrients play in the growth and velopment of plants. Describe the deficiency symptoms of various ements in plants.		
7.	Des	Describe the role of auxin and cytokinin in plant development. (10)		
8.	Diffe	erentiate between the following:	(5×3=15)	
	i)	Photosystems I (PSI) and Photosystems II (PSII)		
	ii)	Combustion and Respiration		
	iii)	Transpiration and Guttation		
9.	Write short note on the following:		(5×3=15)	
	i)	Plant responses to stress conditions		
	ii)	Glycolysis		
	iii)	Photoreduction		