

GURUCHARAN UNIVERSITY

DEPARTMENT OF BOTANY

SECOND UNIT TEST 2025 (INTERNAL ASSESMENT-II)

(TEST IN THE FORM OF ASSIGNMENT SUBMISSION)

DATE OF SUBMISSION: 27TH OCTOBER. TIME:11AM -2PM

INSTRUCTIONS FOR ASSIGNMENT

1. Assignment should be in handwritten in A4 pages. Give margin of 1 inch on top and left side. Do not give assignment in stick file, staple the pages securely.
2. A cover page with details like Samarth roll no./class roll no./ university roll no./university registration no./ personal contact no. (WhatsApp no.)/Name, Subject, paper code, paper name, etc, clearly in CAPITAL LETTERS.
3. A maximum of 6 pages including the cover page should be used for the assignment.
4. Incorporate necessary labelled diagrams wherever required.
5. **SUBMISSION DATE WILL NOT BE EXTENDED.**

ASSIGNMENT TOPICS

Sl. No.	Class	Paper code and paper name	Assignment topic/Marks	Teacher concerned
1	1 st Sem	BOTDSC-101 (Microbiology)	1. Write an elaborate note on different methods of sterilization used in microbiology. 10 2. Write notes on the Economic importance of Bacteria and viruses. 10	Dr. M. M. Das
2		BOTDSC-102 (Phycology and Mycology)	Describe the process of Mushroom cultivation. 20	Dr. A. Nath
3		BOTDSM-101 (Biodiversity)	Write a note on the economic importance of fungi. 20 Or Describe the different modes of reproduction of bacteria. 20	Mr. N. Malakar
4		BOTIDC-101 (Gardening)	Write a note on Indoor Gardening. Mention the factors affecting growth of indoor plants. Name few plants suitable for gardening. 5+12+3=20	Ms Euniky Kungate

5		BOTSEC-101(Medicinal plants.....)	Write the systematic position, distinguishing features and uses of the following herbs in curing ailments. 1. Ginger 2. Indian gooseberry 3. Arjun 4. Ashwagandha 14	Dr. D. Nath
	3 rd Sem	BOTDSC-201(Archegoniate)	Describe in detail the classification of Pteridophytes and Gymnosperms. 10+10=20	Dr. A. Das Astapati
7		BOTDSC202 (Genetics)	Define polygenic inheritance. Explain it citing the example of kernal colour of wheat. 20 Or Define epistasis. Explain dominant epistasis and recessive epistasis with suitable crosses. 20	Mr. N. Malakar
8		BOTDSM-201 (Plant Anatomy and Embryology)	Write a detailed note on the types of embryo sac development along with necessary diagrams. 20	Dr. A. Nath
9		BOTIDC-201 (Plant and Traditional Knowledge)	Answer the following questions: 1. Write about the role and importance of AYUSH in promoting scientific exploration of traditional knowledge. 10 2. Briefly write on 'India as a vast reservoir of traditional knowledge'. 10	Dr. D. Nath
10		BOTSEC-201(Horticulture)	Write notes on the following: a). Agro-horticultural society. 7 b) Krishi Vigyan Kendro (KVK). 7	Ms Euniky Kungate
11	5 th Sem	BOTDSC-301 (Advance Morphology and Anatomy)	Give an illustrated account of the anatomical adaptations of hydrophytes and xerophytes. 10+10=20	Ms Euniky Kungate
12		BOTDSC-302 (Plant Physiology)	Answer the following questions: 1. Differentiate between PS I and PS II. 5 2. Differentiate between cyclic and non-cyclic photophosphorylation. 5 3. Describe the process of Glycolysis. 5 4. Write a short note on Photoperiodism. 5	Dr. D. Nath
13		BOTDSM-301 (Plant Biochemistry)	1. Write an elaborate note on different levels of structural organization of proteins. Give diagrams. 7+3=10 2. a) Write a note on Glycolysis. 5 b) Write a note on Electron Transport Chain. 5	Dr. M. M. Das
14		BOTDSM-302 (Plant Ecology)	Define ecological pyramids. Explain the different types of ecological pyramids. 2+18=20 Or	Mr. N. Malakar

			Write a note on soil profile. Explain the role of climate in soil development. 4+16=20	
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Dr. Ashis Nath

HOD, Botany

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