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B.Sc. (HONS) BOTANY
I SEMESTER EXAMINATION DECEMBER 2025

Paper Name: **Basics of Plant Identification**Paper Code: **BBOSEC101**Time: **2 hours**Maximum Marks: **45**

Note: This paper has 3 sections A, B, and C.

Section A: Answer all the questions. **Section B:** Attempt any 5 out of 6.**Section C:** Attempt any 2 out of 3.

Abbreviations used:

CO-Course Outcomes

CLO1: Demonstrate a comprehensive understanding of the importance of plant identification in various fields such as botany, agriculture, horticulture, and ecology.**CLO2:** Evaluate the role of herbaria and botanical gardens in plant identification and their significance in conservation and research.**CLO3:** Analyze and identify plant specimens using various morphological and anatomical features and understand the importance of these features in plant identification.**CLO4:** Demonstrate knowledge of the process of specimen preparation and drying, mounting, and labeling of plant specimens, and the importance of accurate labeling in plant identification.**CLO5:** Apply critical thinking skills and the scientific method to accurately identify and classify plant specimens, and effectively communicate findings using appropriate scientific terminology and visual aids.**BTL-Bloom's Taxonomy Levels**

1- Remembering, 2-Understanding, 3-Applying, 4-Analyzing, 5-Evaluating, 6-Creating

SECTION A

Very Short Type Question (15 questions)

15 x 1 = 15 Marks

Q.No.	Questions	Marks	CO	BTL
1	Match the following Inflorescence Type A. Raceme B. Panicle C. Spike D. Capitulum E. Spadix Example 1. Sunflower 2. Banana 3. Mustard 4. <i>Amaranthus</i> 5. Mango	5x1	3	1
2	Match the following Fruit Type A. Legume B. Follicle C. Capsule D. Pepo E. Pome Example 1. <i>Malus domestica</i> 2. <i>Cucumis sativus</i> 3. <i>Datura</i> 4. <i>Catharanthus</i> 5. <i>Pisum</i>	5x1	3	1

3	The person who scientifically describes plants is called a _____.	1	1	1
4	The reproductive organ of angiosperms is _____	1	3	1
5	Anatomy helps in deciding plant age. (True/False)	1	3	1
6	In monocots, vascular bundles are irregularly dispersed in the ground tissue. (True/False)	1	3	2
7	All fruits arise only from ovary. (True/False)	1	3	2

SECTION B

Short Type Question. (Attempt any **THREE**)

3 x 5 = 15 Marks

Q.No.	Question	Marks	CO	BTL
1	How do botanical gardens contribute to conservation and plant identification simultaneously?	5	1	2,5
2	Explain the role of herbaria as taxonomic research tools.	5	2	2
3	Explain the importance of plant identification in agriculture.	5	2	2
4	Write key differences between plant systematics and plant taxonomy.	5	5	4

SECTION C

Long type Question (Attempt any **TWO**)

2 x 7.5 = 15 Marks

Q.No.	Question	Marks	CO	BTL
1	Discuss traditional and modern plant identification techniques with examples.	7.5	5	2,3
2	Describe the diagnostic characters of the family Fabaceae, Solanaceae, and Asteraceae with examples.	7.5	5	4
3	Describe the complete procedure of herbarium preparation - from field collection to storage.	7.5	4	2,3

END OF QUESTION PAPER