

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2025  
(Third Semester)

Branch – BOTANY

**TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY**

Time: Three Hours

Maximum: 75 Marks

**SECTION-A (10 Marks)**

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which one is not basic to taxonomy among the following processes? a) Identification                      b) Classification c) Collection of specimen              d) Nomenclature	K1	CO1
	2	ICBN stands for a) International Code for Biological Naming b) International Centre for Botanical Nomenclature c) Indian Code for Biological Nomenclature d) International Code for Botanical Nomenclature	K2	CO1
2	3	Nymphaeaceae family prefer _____ habitats a) Freshwater                      b) Rainforests c) Marine environments              d) Alpine tundras	K1	CO2
	4	An androphore is present in some species of a) <i>Cleome</i> sp.                      b) <i>Annona</i> sp. c) <i>Brassica</i> sp                      d) <i>Menispermum</i> sp.	K2	CO2
3	5	Interpetiolar stipules found in a) <i>Ixora</i> sp.                      b) <i>Zizyphus</i> sp. c) <i>Cleome</i> sp.                      d) <i>Annona</i> sp.	K1	CO3
	6	What is the characteristic shape of the flowers in most Bignoniaceae species? a) Actinomorphic                      b) Zygomorphic c) Radial symmetry                      d) Asymmetric	K2	CO3
4	7	The inflorescence of plants in the family Piperaceae is typically a _____ a) Spike                      b) Capitulum c) Raceme                      d) Umbel	K1	CO4
	8	Which of the following plants belongs to the Amaryllidaceae family? a) Potato                      b) Tomato c) Onion                      d) Pea	K2	CO4
5	9	Best irrigation method for mango field? a) Sprinkler irrigation                      b) Drip irrigation c) Ring method                      d) free flooding method	K1	CO5
	10	Cardamom is propagate by a) rhizomes cutting                      b) stem cutting c) leaf cutting                      d) flower cutting	K2	CO5

Cont...

**SECTION - B (35 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Describe the contribution of Nathaniel Wallich's and Gamble's in the field of plant taxonomy.	K2	CO1
	(OR)			
	11.b.	Give the various steps in herbarium techniques.		
2	12.a.	Expose the primitive floral characteristics of Magnoliaceae family.	K3	CO2
	(OR)			
	12.b.	Provide the floral characters of Myrtaceae family with suitable diagrams.		
3	13.a.	Tabulate the specialized floral features of Rubiaceae family with suitable diagrams.	K3	CO3
	(OR)			
	13.b.	Assign distinctive characteristic features of Pedaliaceae.		
4	14.a.	Illustrate the unique features of the floral characters of Piperaceae.	K4	CO4
	(OR)			
	14.b.	Outline the floral characters of Amaryllidaceae with suitable diagrams.		
5	15.a.	Point out the economic importance of <i>Solanum tuberosum</i> .	K4	CO5
	(OR)			
	15.b.	Outline the cultivation, Harvest, Processing of <i>Elettaria cardamomum</i> .		

**SECTION - C (30 Marks)**

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Illustrate the natural system of classification of Plant.	K4	CO1
2	17	Distinguish the specific floral morphology found in Fabaceae family.	K4	CO2
3	18	Explain the variation in the floral characters of Oleaceae.	K4	CO3
4	19	Validate the advanced unique features of the Poaceae with suitable diagrams.	K5	CO4
5	20	Summarize the Cultivation, Harvest, Processing and Economic Importance of <i>Gossypium hirsutum</i> .	K5	CO5