

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION MAY 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	Show the other technical name of Numerical taxonomy. (A) Cladistics (B) Phenetics (C) Morphological classification (D) Phylogenetic systematics	K1	CO1
	2	Name the technique using for drying and preserving plant specimens. (A) Herbarium technique (B) Taxonomy (C) Cladistics (D) Systematics	K2	CO2
2	3	What type of fruit do members of the Cucurbitaceae family typically produce? (A) Capsules (B) Drupes (C) Legumes (D) Berries	K1	CO1
	4	Infer the genus Eucalyptus belongs to family (A) Myrtaceae (B) Capparidaceae (C) Fabaceae (D) Nymphaeaceae	K2	CO2
3	5	What characteristic is common in the Boraginaceae family? (A) Opposite leaves (B) Hairy leaves and blue flowers (C) Large tubular flowers (D) Edible fruits	K1	CO1
	6	Infer the family is primarily known for its fragrant flowers. (A) Pedaliaceae (B) Sapotaceae (C) Oleaceae (D) Rubiaceae	K2	CO2
4	7	Which family includes cereal crops such as wheat and rice? (A) Moraceae (B) Piperaceae (C) Poaceae (D) Areaceae	K1	CO1
	8	Show the common name of the members of the Commelinaceae family. (A) Grasses (B) Spices (C) Aroids (D) Spiderworts	K2	CO2
5	9	Which plant is cultivated for its seeds and pods? (A) <i>Solanum tuberosum</i> (B) <i>Mangifera indica</i> (C) <i>Elettaria cardamomum</i> (D) <i>Gossypium hirsutum</i>	K1	CO
	10	Infer the bark of Quercus suber is used to produce (A) Cork (B) Timber (C) Spices (D) Essential oils	K2	CO2

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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.	Examine the contributions of William Roxburgh to Indian botany.	K4	CO4
		(OR)		
	11.b.	List the significance of Robert Wright's contributions to Indian botany.		
2	12.a.	Analyze the floral characters of family Nymphaeaceae.	K4	CO4
		(OR)		
	12.b.	Compare the Floral Characters of family Menispermaceae with Capparidaceae.		
3	13.a.	Analyze the floral characters of family Boraginaceae.	K5	CO5
		(OR)		
	13.b.	Explain the vegetative and floral characters of family Scrophulariaceae.		
4	14.a.	Explain the economic importance of family Poaceae.	K5	CO5
		(OR)		
	14.b.	Compare the floral characters of family Chenopodiaceae and Moraceae.		
5	15.a.	Elaborate the cultivation and economic importance of <i>Elettaria cardamomum</i> .	K6	CO6
		(OR)		
	15.b.	Discuss the cultivation, harvesting, and economic significance of <i>Solanum tuberosum</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	Discuss the principles of herbarium techniques and their importance in taxonomical studies.	K6	CO6
2	17	Explain the key features of the family Fabaceae with its economic importance.	K5	CO5
3	18	Explain the vegetative and floral characters of family Convolvulaceae.	K5	CO5
4	19	Analyze the key features of family Piperaceae with its economic importance.	K4	CO4
5	20	Analyze the nutritional benefits, culinary uses, and economic impact of <i>Mangifera indica</i> .	K4	CO4

Z-Z-Z END