

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION DECEMBER 2024
(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	What does ICBN stand for? (A) International Code of Botanical Nomenclature (B) International Classification of Biological Nomenclature (C) International Council of Botanical Names (D) International Convention of Botanical Nomenclature	K1	CO1
	2	Infer which system groups organisms based on evolutionary relationships? (A) Morphological classification (B) Phylogenetic classification (C) Numerical taxonomy (D) Natural system of classification	K2	CO2
2	3	Which family does the water lily belong to? (A) Magnoliaceae (B) Nymphaeaceae (C) Myrtaceae (D) Fabaceae	K1	CO1
	4	Infer the plants of Fabaceae family are commonly known as (A) Caper plants (B) Legumes (C) Water lilies (D) Myrtles	K2	CO2
3	5	Which family is known as the Coffee Family? (A) Sapotaceae (B) Oleaceae (C) Bignoniaceae (D) Rubiaceae	K1	CO1
	6	Show that the edible fruit of the sapodilla tree belongs to (A) Oleaceae (B) Sapotaceae (C) Boraginaceae (D) Pedaliaceae	K2	CO2
4	7	<i>The fig</i> tree belongs to which plant family? (A) Chenopodiaceae (B) Moraceae (C) Araceae (D) Commelinaceae	K1	CO1
	8	Show the plant family that includes palms. (A) Arecaceae (B) Poaceae (C) Araceae (D) Moraceae	K2	CO2
5	9	What part of Eucalyptus spp. is primarily utilized for essential oils? (A) Fruits (B) Wood (C) Leaves (D) Seeds	K1	CO
	10	Show the common name of the <i>Gossypium hirsutum</i> . (A) Eucalyptus (B) Upland Cotton (C) Cork Oak (D) Cardamom	K2	CO2

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.	List the salient features of the ICBN.	K4	CO4
	(OR)			
	11.b.	Distinguish between intended and bracketed keys in taxonomy.		
2	12.a.	Compare and contrast the vegetative adaptations of Portulacaceae and Combretaceae.	K5	CO5
	(OR)			
	12.b.	Explain the key features of the family Fabaceae.		
3	13.a.	Discuss the economic importance of Oleaceae.	K6	CO6
	(OR)			
	13.b.	Elaborate the key features of the family Boraginaceae.		
4	14.a.	Explain the floral characters of family Amaryllidaceae.	K5	CO5
	(OR)			
	14.b.	Compare the vegetative characters of family Piperaceae and Moraceae.		
5	15.a.	List the economic importance and uses of <i>Mangifera indica</i> .	K4	CO4
	(OR)			
	15.b.	Analyze the significance of Eucalyptus spp. in forestry and industry.		

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	Compare and contrast the Natural and Phylogenetic systems of classification.	K4	CO4
2	17	Explain the vegetative and floral characters of Cucurbitaceae.	K5	CO5
3	18	Explain the vegetative and floral characters Pedaliaceae.	K5	CO5
4	19	Discuss about vegetative and floral characters of Araceae with its economic importance.	K6	CO6
5	20	Analyze the importance of cork oak in sustainability and economic sectors.	K4	CO4

Z-Z-Z

END