

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch - **BOTANY**

PLANT TAXONOMY AND ECONOMIC BOTANY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks

$(10 \times 1 = 10)$

Module No.	Question No.	Question	K Level	CO
1	1	In the Bentham and Hooker system, the plant kingdom was divided into which two main divisions? (a) Angiosperms and Gymnosperms (b) Dicotyledons and Monocotyledons (c) Cryptogamia and Phanerogamia (d) Algae and Fungi Answer	K1	CO1
	2	Which term refers to the process of flattening and drying plant specimens in a herbarium a) Plant accession b) Plant Collection c) Plant press d) Plant washing	K2	CO1
2	3	Aggregate types of fruits are seen in a) Annonaceae b) Brassicaceae c) Rutaceae d) Cucurbitaceae	K1	CO2
	4	Watermelon and cucumber belonged to the family a) Annonaceae b) Brassicaceae c) Rutaceae d) Cucurbitaceae	K2	CO2
3	5	Pappus helps in dispersal of seed in a) Asteraceae b) Brassicaceae c) Malvaceae d) Solanaceae	K1	CO3
	6	Which plant is a common ornamental member of the Verbenaceae family? a) <i>Tridax procumbens</i> b) <i>Tectona grandis</i> c) <i>Helianthus annuus</i> d) <i>Lantana camara</i>	K2	CO4
4	7	Generally, endosperm is absent in a) Orchidaceae b) Compositae c) Poaceae d) Malvaceae	K1	CO4
	8	The family Arecaceae is also commonly known as the a) Lily family b) Daisy family c) Palm family d) Grass family	K2	CO4
5	9	How many days after sowing are seedlings typically ready for transplanting in the Dapog method? a) 6-8 Days b) 11-13 Days c) 20-25 Days d) 25 – 30 Days	K1	CO5
	10	In coriander, the useful parts are _____ a) Leaves & dried fruits b) stem c) Roots d) Flowers	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks $(5 \times 7 = 35)$

Module No.	Question No.	Question	K Level	CO
1	11.a.	Demonstrate plant specimen identification through dichotomous key. (OR)	K2	CO1
	11.b.	Interpret typification in plant taxonomy.		
2	12.a.	Investigate the special features of Brassicaceae family with suitable diagrams. (OR)	K3	CO2
	12.b.	Compute the unique features of the Cucurbitaceae family with suitable diagrams.		
3	13.a.	Examine the characteristic pollination mechanisms in Asclepiadaceae family with suitable diagrams. (OR)	K3	CO3
	13.b.	Explore the key characteristics of Verbenaceae plants with suitable diagrams.		
4	14.a.	Characterize the cyathium in Euphorbiaceae family with suitable diagrams. (OR)	K4	CO4
	14.b.	Explain the various floral parts of an orchid flower with suitable diagrams.		
5	15.a.	Point out the economic benefits of red gram. (OR)	K4	CO5
	15.b.	Explain the basic steps to cultivate the Coriandrum.		

SECTION - C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks $(3 \times 10 = 30)$

Module No.	Question No.	Question	K Level	CO
1	16	Analyses the Bentham and Hooker system of classification up to subclass level.	K4	CO1
2	17	Illustrate the distinct floral structures of Leguminosae with suitable diagrams.	K4	CO2
3	18	Point out the advanced characteristics of the Asteraceae family with suitable diagrams.	K4	CO3
4	19	Interpret the floral characters of Poaceae with suitable diagrams.	K5	CO4
5	20	Summarize the entire process of paddy cultivation.	K5	CO5