Reg. No.				

## G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI - 628 502.



## **UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2025.**

(For those admitted in June 2023 and later)

## PROGRAMME AND BRANCH: B.Sc., BOTANY

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
v	PART - III	CORE-9	U23BO505	PLANT MORPHOLOGY, TAXONOMY AND ECONOMIC BOTANY

Date & Session:04.11.2025/FN Time: 3 hours Maximum: 75 Marks

Date	or Sessi	ion:U4.	11.2025/FN Time: 3 hou	irs	Maximum: 75 Marks
Course	Bloom's K-level	Q. No.		(10 X 1 = 10 Ma: ALL Questions.	rks)
CO1	K1	1.	Identify the root modification that helps in a) Fibrous root c) Tap root	respiration. b) Prop root d) Pneumatophore	
CO1	K2	2.	Recall the position of the ovary in an epigy a) Superior c) Inferior	nous flower. b) Half-inferior d) None of these	
CO2	K1	3.	Name the system of classification partificial system c) Natural system	roposed by Benth b) Phylogenetic s d) Evolutionary s	system
CO2	K2	4.	Select the organization responsive resources in India.  a) Botanical Survey of India b) Zoological Survey of India c) Indian Forest Service d) Both the Botanical and Zoologic	·	
CO3	K1	5.	Match the plant with its correct family: Sur a) Fabaceae c) Solanaceae	b) Poaceae d) Asteraceae	
CO3	K2	6.	Select the type of flower found in M a) Unisexual c) Bisexual	enispermaceae. b) Very large flov d) No flowers	vers
CO4	K1	7.	Choose the flower type of Pedaliacea a) Unisexual c) Bisexual	ae family plants. b) Male only d) Female only	
CO4	K2	8.	Indicate the type of fruit found in Po a) Drupe c) Capsule	oaceae family. b) Caryopsis d) Nut	
CO5	K1	9.	Rose oil is extracted by which process?  a) Cold pressing c) Fermentation	b) Steam distil d) Solvent extr	
CO5	K2	10.	Discover the part of the coffee plant a) Leaf c) Seed (bean)	used for making b) Root d) Flower	the beverages.

Course Outcome	Bloom's K-level	Q. No.	$\frac{\text{SECTION} - B \text{ (5 X 5 = 25 Marks)}}{\text{Answer } \frac{\text{ALL}}{\text{Questions choosing either (a) or (b)}}$
CO1	К3	11a.	Illustrate the tap root modifications with suitable examples.  (OR)
CO1	КЗ	11b.	Classify the types of racemose inflorescence.
CO2	КЗ	12a.	Write short notes on the role of Botanical Survey of India. (OR)
CO2	КЗ	12b.	Write short notes on digital herbarium and its advantages.
CO3	K4	13a.	Examine the economic importance of the family Cucurbitaceae with suitable examples.  (OR)
CO3	K4	13b.	Compare the distinguishing family characteristics of Portulacaceae and Rosaceae.
CO4	K4	14a.	Compare the floral characteristics of Lythraceae and Pedaliaceae. (OR)
CO4	K4	14b.	Interpret the economic importance of the family Poaceae.
CO5	K5	15a.	Assess the utility of teak as a timber plant. (OR)
CO5	K5	15b.	Critically examine the economic value of cardamom as a spice crop.

Course Outcome	Bloom's K-level	Q. No.	$\frac{\text{SECTION} - C}{\text{Answer } \underline{\text{ALL}}}$ Questions choosing either (a) or (b)
CO1	КЗ	16a.	Classify the types of leaves based on phyllotaxy and venation with neat diagrams.  (OR)
CO1	КЗ	16b.	Analyze the structure of a seed and explain importance of seed dispersal.
CO2	K4	17a.	Explain the outline classification of Bentham and Hooker system with its merits and demerits.  (OR)
CO2	K4	17b.	Describe the steps involved in the herbarium technique: collection, pressing and drying.
CO3	K4	18a.	Analyze the floral characteristics of Rutaceae with the help of a floral diagram and floral formula.  (OR)
CO3	K4	18b.	Analyze the floral characteristics of Asclepiadaceae with the help of a floral diagram and floral formula.
CO4	K5	19a.	Critically assess the distinguishing morphological and floral characters of the family Rubiaceae.  (OR)
CO4	K5	19b.	Critically assess the distinguishing morphological and floral characters of the family Commelinaceae.
CO5	K5	20a.	Evaluate the importance of rose as a source of essential oil and its applications in perfumery.  (OR)
CO5	K5	20b.	Assess the utilization of major plantation crops: sugarcane, coffee and rubber.