## 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

s	SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
	ш	PART - III	CORE - 5	U23BO303	PLANT DIVERSITY III - BRYOPHYTES AND PTERIDOPHYTES

Date & Session: 07.11.2025/AN Time: 3 hours Maximum: 75 Marks

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Course Outcome	Bloom's K-level	Q. No.	<u>SECTION - A (10 X 1 = 10 Marks)</u> Answer <u>ALL Questions.</u>
CO1	K1	1.	The thalloid plant body is found in  a) Angiosperm b) Gymnosperms c) Pteridophytes d) Bryophytes
CO1	K2	2.	A characteristic feature of bryophytes is  a) A small sporophyte phase, which is dependent on the gametophyte b) Sporophytes stay for a longer duration c) A dominant and spore-producing gametophyte d) A dominant and parasitic sporophyte
CO2	K1	3.	Marchantia is mostly comes under the  a) Dioecious b) Monecious c) Both A and B d) None of the above
CO2	K2	4.	In <i>Funaria</i> , the sporophytic phase is well-developed, comprising.  a) Seta, foot and capsule b) Only capsule c) Spore sac d) Foot and capsule
CO3	K1	5.	In Pteridophytes, the dominant generation is  a) Gametophytic b) Haploid c) Diploid d) Triploid
CO3	K2	6.	Phloem is without in pteridophytes  a) Companion cells b) Sieve cells c) Bast fibres d) Phloem parenchyma
CO4	K1	7.	Adiantum is also known as  a) Walking fern b) Button fern c) Holly fern d) Boston Fern
CO4	K2	8.	Lycopodium is  a) Heterosporous b) Homosporous c) Water firm d) Both Band C
CO5	K1	9.	is the most primitive type of protostele.  a) Haplostele b) Actinostele c) Plectostele d) Mixed Protostele
CO5	K2	10.	What is the modification of the protostele?  a) Siphonostele b) Plectostele c) Actinostele d) None of the above

Course Outcome	Bloom's K-level	Q. No.	$\frac{\text{SECTION} - \text{B (5 X 5 = 25 Marks)}}{\text{Answer } \frac{\text{ALL}}{\text{Questions choosing either (a) or (b)}}$
CO1	КЗ	11a.	Discover the general characters of bryophytes. (OR)
CO1	КЗ	11b.	Write short notes on medicinal and horticultural importance of bryophytes.
CO2	КЗ	12a.	Prepare the vegetative structural characters of <i>Marchantia</i> with diagram. (OR)
CO2	КЗ	12b.	Expand the details of sexual reproduction of <i>Anthoceros</i> with diagram.
CO3	K4	13a.	Examine the morphological characters of pteridophytes. (OR)
CO3	K4	13b.	Differentiate Apogamy from Apospory.
CO4	K4	14a.	Illustrate the stem anatomy of <i>Psilotum</i> . (OR)
CO4	K4	14b.	Investigate the vegetative structure of <i>Lycopodium</i> with diagram.
CO5	K5	15a.	Review the biofertilizer and medicinal importance of pteridophytes. (OR)
CO5	K5	15b.	Evaluate the stelar evolution theory. Add its importance.

Course Outcome	Bloom's K-level	Q. No.	$\frac{\text{SECTION} - C \text{ (5 X 8 = 40 Marks)}}{\text{Answer } \underline{\text{ALL}} \text{ Questions choosing either (a) or (b)}}$
CO1	КЗ	16a.	Write a detailed account on classification of bryophytes. (OR)
CO1	КЗ	16b.	Invent the reproduction of bryophytes with diagram.
CO2	K4	17a.	Point out the <i>Funaria</i> capsule with diagram. (OR)
CO2	K4	17b.	Explore the general characters of <i>Anthocerotopsida</i> .
CO3	K4	18a.	Discover the classification of pteridophytes. (OR)
CO3	K4	18b.	Analyze the concept of Heterspory in pteridophytes. And add its importance to plant kingdom.
CO4	K5	19a.	Criticize the anatomy of rhizome in <i>Adiantum</i> .  (OR)
CO4	K5	19b.	Inspect the stem anatomy of Equisetum.
CO5	K5	20a.	Expostulate the different types of steles in pteridophytes. (OR)
CO5	K5	20b.	Review the economic importance of pteridophytes with reference to ecological, horticulture, pollution.