Reg. No.								

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

UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.
(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.Sc., BOTANY

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

Date & Session: 09.11.2024 / AN **Time: 3 hours** **Maximum: 75 Marks**

Course Outcome	Bloom's K-level	Q. No.	**SECTION – A (10 X 1 = 10 Marks)** **Answer ALL Questions.**
CO1	K1	1.	Father of Indian Bryology is: a) S. K. Pandey b) R. S. Chopra c) S. R. Kashyap d) K. L. Metha
CO1	K2	2.	Gametophytic generation is dominant in. a) Gymnosperms b) Pteridophytes c) Bryophytes d) Angiosperms
CO2	K1	3.	Gemma cup is found in. a) Marchantia b) Anthoceros c) Sphagnum d) Riccia
CO2	K2	4.	Anthoceros is commonly known as. a) Bladderworts b) Stoneworts c) Hornworts d) Liverworts
CO3	K1	5.	Spores of pteridophytes are. a) Haploid b) Diploid c) Triploid d) Tetraploid
CO3	K2	6.	If all the spores are of same size and shape the plant is said to be as. a) Aposporous b) Homosporous c) Heterosporous d) None
CO4	K1	7.	Three chambered sporangium is present in. a) Lycopodium b) Psilotum c) Equisetum d) Adiantum
CO4	K2	8.	Which of the following is found in aerial stem of Equisetum. a) Ridges only b) Furrows only c) Both Ridges and Furrows d) None of these
CO5	K1	9.	Stelar theory was proposed by. a) Sachs b) Van tieghem and douliot c) Foster and Gifford d) DD Pant
CO5	K2	10.	An aquatic fern which is an excellent biofertilizer is _____. a) Azolla b) Salvinia c) Marsilea d) Pteridium
Course Outcome	**Bloom's K-level**	**Q. No.**	**SECTION – B (5 X 5 = 25 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K3	11a.	Give an outline classification of Bryophytes by Rothmaler. **(OR)**

CO1	K3	11b.	Enumerate the Ecological significance of Bryophytes.
CO2	K3	12a.	Describe the transverse section of Marchantia thallus with diagram. **(OR)**
CO2	K3	12b.	Explain the mechanism of dehiscence of capsule in Funaria.
CO3	K4	13a.	What is apospory? Explain it giving suitable examples. **(OR)**
CO3	K4	13b.	What is heterospory? Mention the importance of Heterospory.
CO4	K4	14a.	Describe the morphological structure of Psilotum. **(OR)**
CO4	K4	14b.	Describe the sporophytic plant body of Equisetum.
CO5	K5	15a.	Describe the role of Pteridophytes as Biofertilizer with suitable examples. **(OR)**
CO5	K5	15b.	Describe the ecological impotence of Pteridophytes.

Course Outcome	**Bloom's K-level**	**Q. No.**	**SECTION – C (5 X 8 = 40 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K3	16a.	Describe the general characters of Bryophytes. **(OR)**
CO1	K3	16b.	Write an essay on the economic importance of Bryophytes.
CO2	K4	17a.	Describe the reproduction take place in Marchantia. **(OR)**
CO2	K4	17b.	Describe the L.S of Anthoceros capsule with suitable diagram.
CO3	K4	18a.	Give an essay on general characters of Pteridophytes. **(OR)**
CO3	K4	18b.	Give an elaborate note on classification of Pteridophytes proposed by Sporne.
CO4	K5	19a.	Discuss the different types of gametophytic generation in Lycopodium. **(OR)**
CO4	K5	19b.	Give an essay on life cycle of Adiantum.
CO5	K5	20a.	With the help of suitable diagrams, describe the evolution of stelar systems in Pteridophytes. **(OR)**
CO5	K5	20b.	Give a detailed account on economic importance of Pteridophytes.