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



UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.

(For those admitted in June 2021 and later)

PROGRAMME AND BRANCH: B.Sc., BOTANY

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
II	PART - III	CORE	U21BO203	PTERIDOPHYTES, GYMNOSPERMS & PALEOBOTANY

Date & Session: 04.11.2024/FN

Time : 3 hours

Maximum: 75 Marks

Course Outcome	Bloom's K-level	Q. No.	SECTION - A (10 X 1 = 10 Marks) Answer <u>ALL</u> Questions.
CO1	K1	1.	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
CO1	K2	2.	Spores of Pteridophytes are. a) Haploid b) Diploid c) Triploid d) Tetraploid
CO2	K1	3.	“Club moss” is the common name for. a) Equisetum b) Selaginella c) Lycopodium d) None
CO2	K2	4.	Stellar theory was proposed by. a) Sachs b) Van tieghem and douliot c) Foster and Gifford d) DD Pant
CO3	K1	5.	Gnetum is found in India in. a) Sikkim and Assam b) Central and Northern Himalayas c) Central India d) Cultivated gardens
CO3	K2	6.	The anatomy of Pinus needle shows the feature of the. a) Mesophyte b) Hydrophyte c) Xerophyte d) Epiphyte
CO4	K1	7.	The largest division of geological time in the Geological Time Scale is called. a) Era b) Period c) Age d) Epoch
CO4	K2	8.	Choose the correct example of a trace fossil from the following options. a) Foot print b) Petrified wood c) Tooth d) Hardened bone
CO5	K1	9.	Which of the following is a fossil Pteridophyte? a) Lycopodium b) Rhynia c) Psilotum d) Selaginella
CO5	K2	10.	The father of Indian Paleobotany is. a) Birbal Sahani b) Homi Bhabha c) C.V. Raman d) Maheshwari

Course Outcome	Bloom's K-level	Q. No.	SECTION – B (5 X 5 = 25 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K3	11a.	Write down the general characters of Pteridophytes. (OR)
CO1	K3	11b.	Construct the internal structure of aerial axis in Psilotum.
CO2	K3	12a.	Discuss about the internal structure of Marsilea sporocarp. (OR)
CO2	K3	12b.	Write an account on economic importance of Pteridophytes.
CO3	K4	13a.	List down the general characters of Gymnosperms. (OR)
CO3	K4	13b.	Describe the internal structure of Gnetum leaf.
CO4	K4	14a.	Write short notes on economic importance of Gymnosperms. (OR)
CO4	K4	14b.	Explain affinities of Gymnosperms with Pteridophytes.
CO5	K5	15a.	Write short notes on Lyginopteris. (OR)
CO5	K5	15b.	Give a brief note on Birbal Sahni Institute of Palaeobotany.

Course Outcome	Bloom's K-level	Q. No.	SECTION – C (5 X 8 = 40 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K3	16a.	Give detailed account of classification of Pteridophytes given by Smith. (OR)
CO1	K3	16b.	Briefly explain the life cycle of Psilotum.
CO2	K4	17a.	Explain the life cycle of Marsilea with the help of suitable diagrams. (OR)
CO2	K4	17b.	Describe about the internal structure of Lycopodium.
CO3	K4	18a.	Categorize the classification of Gymnosperm by Chamberlain. (OR)
CO3	K4	18b.	Distinguish the male and female cone of Pinus.
CO4	K5	19a.	Construct on Geological Time Scale. (OR)
CO4	K5	19b.	Describe different types of plant fossils and their formations.
CO5	K5	20a.	Write an essay on Rhynia. (OR)
CO5	K5	20b.	Explain the contribution of Prof. Birbal Sahni in fossil science.