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



UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2025.

(For those admitted in June 2021 and later)

PROGRAMME AND BRANCH: B.Sc., BOTANY

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
VI	PART-III	CORE	U21BO612	PLANT ECOLOGY AND BIODIVERSITY

Date & Session: 07.11.2025/FN

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.	The natural residence of every organism is known as _____. a) Biome b) Niche c) Habit d) Habitat
CO1	K2	2.	Plants growing under direct sunlight are known as _____. a) Heliophytes b) Sciophytes c) Psamophytes d) Dicots
CO2	K1	3.	The term ecosystem was proposed by _____. a) Lindeman b) Tansley c) Grinnel d) Turesson
CO2	K2	4.	What is the name of the feature that allows organisms to survive in the conditions of its habitat _____. a) Adjustment b) Adaptation c) Acclimatilisation d) Adaptive variation
CO3	K1	5.	Synecology deals with the study of _____. a) Ecology of many species b) Ecology of many Populations c) Ecology of community d) None of the above
CO3	K2	6.	The term Biocoenosis was proposed by _____. a) Transley b) Carl Mobius c) Warming d) None of the above
CO4	K1	7.	Lithosphere serves as a reservoir for _____. a) Nitrogen cycles b) Carbon cycles c) Oxygen cycles d) Phosphorus cycles
CO4	K2	8.	Which of the following successions is represented by soil changes due to erosion _____. a) Allogenic succession b) Autogenic succession c) Computational succession d) Emigrational succession
CO5	K1	9.	Red data book contains data of _____. a) All plant species b) All animal species c) Economically important species d) Threatened Species
CO5	K2	10.	Which of the following countries has the highest biodiversity _____. a) Brazil b) South Africa c) Russia d) India

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.	Describe the abiotic factors and their influence on vegetation? (OR)
CO1	K3	11b.	What are biogeochemical cycles? Explain with the help of a diagram the nitrogen cycle.
CO2	K3	12a.	Write short notes on: a) Food chain b) Artificial ecosystem (OR)
CO2	K3	12b.	Describe the role of physiological adaptation of plants?
CO3	K4	13a.	Write the difference between population and community? (OR)
CO3	K4	13b.	Give a short note on migration?
CO4	K4	14a.	Describe the types of succession? (OR)
CO4	K4	14b.	Give a short note on concept of succession?
CO5	K5	15a.	Define hotspot of biodiversity? (OR)
CO5	K5	15b.	Write note on endangered species of biodiversity?

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.	Write an essay on concept of ecology? (OR)
CO1	K3	16b.	Discuss in detail the origin, types, composition and profile of soil.
CO2	K4	17a.	What are ecological pyramids? Explain different types of ecological pyramids with neat sketch. (OR)
CO2	K4	17b.	Explain the structural and functional adaptations of plants in aquatic ecosystem?
CO3	K4	18a.	Give a brief account on vegetation of plant ecology? (OR)
CO3	K4	18b.	Explain the types and procedure of population study by quadrat method.
CO4	K5	19a.	Explain various processes involved in ecological succession? (OR)
CO4	K5	19b.	Write an essay on ecological succession theories?
CO5	K5	20a.	Discuss the values of biodiversity? (OR)
CO5	K5	20b.	What are the major threats of biodiversity?