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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
II	PART-III	CORE	U21BO204	MICROBIOLOGY, MYCOLOGY, LICHENOLOGY AND PLANT PATHOLOGY

Date & Session: 04.11.2025/FN

Time: 3 hours

Maximum: 75 Marks

Course Outcome	Bloom's K-level	Q. No.	SECTION – A (10 X 1 = 10 Marks) Answer <u>ALL</u> Questions.
CO1	K1	1.	Scientist who disproved theory of spontaneous generation _____. a) Koch b) Pasteur c) Jenner d) Hansen
CO1	K2	2.	The bacterial culture prepared by pure culture method is _____. a) Inoculum b) Suspension c) Dilution d) None of these
CO2	K1	3.	Who is the father of virus _____. a) Martinus Beijerinck b) Dmitri Ivanovsky c) John Ellerman d) Frederick Twort
CO2	K2	4.	Which of the following is a helical virus _____. a) TMV b) T4 phage c) Pox virus d) Herpes virus
CO3	K1	5.	The network of hyphae forming the fungal body is known as _____. a) Thallus b) Haustoria c) Mycelium d) Septa
CO3	K2	6.	After fusion of sexual gametes in <i>Mucor</i> the resultant structure is known as _____. a) Oospore b) Cleistothecium c) Zygosporangium d) Zygote
CO4	K1	7.	Yeast is important source of _____. a) Vitamin C b) Riboflavin c) Sugar d) Protein
CO4	K2	8.	Lichen are best indicators of _____. a) Air pollution b) Water pollution c) Soil pollution d) None of these
CO5	K1	9.	Plant disease which affect the absorption and accumulation of water and minerals _____. a) Root rot b) Wilts c) Damping off d) Soft rot

CO5	K2	10.	Which of these is a common disease of groundnut a) Tikka disease b) Bunchy Top c) Rice Tungro d) Panama Wilt
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.	What is the scope of microbiology? (OR)
CO1	K3	11b.	Write a note on staining technique of bacteria?
CO2	K3	12a.	Describe the general characters of virus? (OR)
CO2	K3	12b.	Comment on T4 bacteriophages?
CO3	K4	13a.	Give the general characters of fungi? (OR)
CO3	K4	13b.	Describe the sexual reproduction of mucor?
CO4	K4	14a.	Discuss the economic importance of fungi? (OR)
CO4	K4	14b.	Write a note on symbiotic association of lichens?
CO5	K5	15a.	What are the causes and symptoms of citrus canker? (OR)
CO5	K5	15b.	Briefly discuss the techniques followed in biological control of plant disease?

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.	Give briefly explain about the structure of bacterial cell and with neat diagram? (OR)
CO1	K3	16b.	Briefly explain the media preparation and pure culture techniques of Bacteria?
CO2	K4	17a.	Briefly explain the structure and reproduction of TMV? (OR)
CO2	K4	17b.	Give a brief note on mycoplasma?
CO3	K4	18a.	Give an outline of Ainsworth's classification of fungi. Enumerate main features of different classes of fungi? (OR)
CO3	K4	18b.	Describe the structure, reproduction and life cycle of Puccinia?
CO4	K5	19a.	Describe the different types of thallus structure of lichen with examples? (OR)
CO4	K5	19b.	Describe the economic and ecological significance of lichens?
CO5	K5	20a.	Describe the causative organism, symptoms and control measures of bacterial blight of paddy? (OR)
CO5	K5	20b.	Name the causal organism of tikka disease of groundnut. Describe the symptoms, disease cycle and control measures of the disease?