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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

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
II	PART-III	CORE - 3	U23BO202	PLANT DIVERSITY II - FUNGI, BACTERIA, VIRUSES, PLANT PATHOLOGY AND LICHENS

Date & Session: 08.11.2025/AN

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.	Which of this characteristic feature of fungi _____. a) Xylem and Phloem b) Hyphae c) chloroplasts d) Mesophyll
CO1	K2	2.	Which structure forms during the sexual reproduction of zycomycota _____. a) Conidia b) Basidium c) Zygosporangium d) Sporangium
CO2	K1	3.	Aspergillus niger is commonly used for production of _____. a) Alcohol b) Antibiotics c) Citric acid d) Bread
CO2	K2	4.	Production of ethanol (C ₂ H ₅ OH) occurs in one of the life processes of _____. a) Bread mould b) Yeast c) Mushroom d) Penicillium
CO3	K1	5.	The cocci which mostly occur in single or pairs are _____. a) Strptococci b) Diplococci c) Tetracocci d) None of these
CO3	K2	6.	The largest virus is _____. a) Megavirus chilensis b) Arbo virus c) Herpes virus d) Mumps Virus
CO4	K1	7.	The name of the disease in ground nut _____. a) Tikka disease b) Bacteria c) Leaf Blight d) Citrus canker
CO4	K2	8.	Citrus canker disease is caused by _____. a) Virus b) Fungi c) Bacteria d) Mosquito
CO5	K1	9.	The mutualistic relationship between fungi and plant root is called _____. a) Lichen b) Saprohyte c) Mycorrhiza d) Rhizoid
CO5	K2	10.	Majorly, lichens are the pollution indicators of _____. a) CO b) Mercury c) NO ₂ d) SO ₂

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.	Give a note on general characters of fungi? (OR)
CO1	K3	11b.	Describe basidiocarp development in <i>Agaricus</i> ?
CO2	K3	12a.	Explain the role of fungi in industries? (OR)
CO2	K3	12b.	Give short notes on industrially production of alcohol?
CO3	K4	13a.	Describe the bergey's manual of Bacterial classification? (OR)
CO3	K4	13b.	Write a note on general characters of virus?
CO4	K4	14a.	Examine general symptoms of plant diseases? (OR)
CO4	K4	14b.	Write in detail with illustration about tikka disease of ground nut?
CO5	K5	15a.	Describe the growth forms of lichens? (OR)
CO5	K5	15b.	Explain the importance of lichen in medicine?

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.	Explain the classification of fungi with characters proposed by Alexopoulos and Mims, 1979? (OR)
CO1	K3	16b.	Describe the structure, reproduction of zycomycotina with suitable diagrams?
CO2	K4	17a.	Briefly state the role of fungi in agriculture? (OR)
CO2	K4	17b.	Elaborate the vitamins production of industrially important products from fungi?
CO3	K4	18a.	Write an essay on ultra structure of bacterial cell? (OR)
CO3	K4	18b.	Illustrate the structure and reproduction of virus?
CO4	K5	19a.	Explain the symptoms, causes and control measures of bacterial disease of citrus canker? (OR)
CO4	K5	19b.	Write an essay on TMV?
CO5	K5	20a.	Describe with neat sketches the thallus organization sexual reproduction in <i>Usnea</i> ? (OR)
CO5	K5	20b.	Organize the economic importance of lichens?