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



UG DEGREE END SEMESTER EXAMINATIONS - APRIL 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: 28.04.2025/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.	Identify the saprophytic fungi a) Agaricus c) Mucor b) Amanita d) Lactarius
CO1	K2	2.	Which one of the following imperfect? a) Myxomycetes c) Deuteromycetes b) Basidiomycetes d) Oomycetes
CO2	K1	3.	Which one of the following product is made by the involvement of Yeast? a) Ethyl alcohol c) Cheese b) Acetic acid d) Curd
CO2	K2	4.	In root cortex, ectomycorrhizae formed an intercellular network is called as a) Arbuscules c) Hartignet b) Vescicles d) Haustoria
CO3	K1	5.	Which type of virus is involved in the bacterial transduction process? a) Animal virus c) Bacteriophage b) Plant virus d) HIV
CO3	K2	6.	Trace out the nucleic component is present in most of the plant viruses? a) ssRNA c) dsRNA b) ssDNA d) dsDNA
CO4	K1	7.	Choose the causative organism of <i>Citrus</i> canker a) <i>Puccinia recondita</i> c) <i>Pseudomonas solanacearum</i> b) <i>Xanthomonas citri</i> d) <i>Xanthomonas wilt</i>
CO4	K2	8.	Which of the following capsid is made up of 2130 identical protein subunits? a) HIV c) Bacteriophage b) TMV d) CMV
CO5	K1	9.	Lichens with hanging or erect fine branches belong to a) Crustose c) Leprose b) Foliose d) Fruticose
CO5	K2	10.	Identify the pollution indicator for SO ₂ pollution in air? a) Mushroom c) Mosses b) Lichens d) Puffballs

Course Outcome	Bloom's K-level	Q. No.	<p align="center">SECTION – B (5 X 5 = 25 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)</p>
CO1	K3	11a.	List out the characteristic features of fungi. (OR)
CO1	K3	11b.	Illustrate the reproduction of <i>Cercospora</i> .
CO2	K3	12a.	Enumerate the importance of AM fungi. (OR)
CO2	K3	12b.	Highlights the harmful effects of fungi.
CO3	K4	13a.	List out / Categorize the general characters of viruses. (OR)
CO3	K4	13b.	Comment on the structure of virus with suitable diagram.
CO4	K4	14a.	Enumerate any five general symptoms of plant diseases. (OR)
CO4	K4	14b.	Illustrate the structure of TMV.
CO5	K5	15a.	Discuss the methods of vegetative reproduction in Lichens. (OR)
CO5	K5	15b.	Evaluate the ecological significance of <i>Usnea</i> .

Course Outcome	Bloom's K-level	Q. No.	<p align="center">SECTION – C (5 X 8 = 40 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)</p>
CO1	K3	16a.	Classify the fungi according to Alexopoulos and Mims. (OR)
CO1	K3	16b.	Illustrate the structure and reproduction of basidiomycotina with suitable diagrams.
CO2	K4	17a.	Categorize the industrially important products from fungi. (OR)
CO2	K4	17b.	Analyze the role of fungal application in agriculture.
CO3	K4	18a.	Classify the Bergey's manual of bacterial classification. (OR)
CO3	K4	18b.	Examine the sexual and asexual methods of reproduction in bacteria.
CO4	K5	19a.	Provide the causative organism, symptoms, etiology, control measures and disease cycle of Citrus canker. (OR)
CO4	K5	19b.	List the causative organism, symptoms, etiology, control measures and disease cycle of Tikka disease of groundnut.
CO5	K5	20a.	Discuss the various types of Lichens with suitable diagrams. (OR)
CO5	K5	20b.	Enumerate the economic importance of Lichens.