Reg. No.								

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

UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.

(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-2	U23BO202	PLANT DIVERSITY II-FUNGI, BACTERIA, VIRUSES, PLANT PATHOLOGY AND LICHENS

Date & Session: 05.11.2024/AN **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.	Fruiting bodies of slime moulds are called. a) Acervulus b) Sori c) Apothecium d) Perithecium
CO1	K2	2.	Karyogamy means. a) Fusion of nuclei b) Removal of cell wall c) Formation of new cell wall d) Division of nucleus
CO2	K1	3.	The scientific name of white button mushroom is. a) *Volvariella* b) *Aspergillus* c) *Pleurotus* d) *Agaricus bisporus*
CO2	K2	4.	The antibiotic Penicillin is obtained from. a) Protozoa b) Fungus c) Bacteria d) Virus
CO3	K1	5.	Binary fission in bacteria does not involve. a) Spindle formation b) DNA duplication c) Cytokinesis d) Cell elongation
CO3	K2	6.	Who is the father of Virology. a) Martinus Beijerinck b) Dmitri Ivanovsky c) John Ellerman d) Frederick Twort
CO4	K1	7.	Which of the given diseases is related to Groundnut. a) Phomopsis blight b) Tikka c) Leaf rust d) Alternaria blight
CO4	K2	8.	Citrus Canker disease is caused by. a) Virus b) Fungi c) Bacteria d) Mosquito
CO5	K1	9.	A common phycobiont in lichens are. a) Cetraria b) Microcystis c) Trebouxia d) Oedogonium
CO5	K2	10.	Which of the following is indicator of air pollution. a) Algae b) Lichen c) Mass d) Bufballs

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.	Explain the thallus organisation of fungi. **(OR)**
CO1	K3	11b.	Write short notes on criteria for classification of fungi.
CO2	K3	12a.	Describe the cultivation of mushroom in *Pleurotus*. **(OR)**
CO2	K3	12b.	Give short notes on industrially production of alcohol.
CO3	K4	13a.	Write a notes on Bergey' s classification in bacteria. **(OR)**
CO3	K4	13b.	Enumerate the general characters of virus.
CO4	K4	14a.	Write an account of tikka disease in groundnut. **(OR)**
CO4	K4	14b.	Describe the symptoms, disease cycle and control measures of wilt of banana.
CO5	K5	15a.	Explain the growth forms of lichens. **(OR)**
CO5	K5	15b.	Write short note on air pollution and bio monitoring of lichens.

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.	Explain the Alexopolus and Mims classification of Fungi. **(OR)**
CO1	K3	16b.	Give an illustrated account of the life cycle of *Mucor.*
CO2	K4	17a.	Write an essay on agriculture application in fungi. **(OR)**
CO2	K4	17b.	Briefly describe the application of fungi in Pharmaceutical Products.
CO3	K4	18a.	Describe the structure and reproduction of bacteria. **(OR)**
CO3	K4	18b.	Write detailed notes on structure and reproduction of virus.
CO4	K5	19a.	Define symptoms of plant diseases. Describe the geographical distribution of diseases. **(OR)**
CO4	K5	19b.	Describe the symptoms, disease cycle and control measures of Bacterial diseases in citrus canker. Name and describe the causal organism.
CO5	K5	20a.	Describe with neat sketches the thallus organization sexual reproduction in *Usnea.* **(OR)**
CO5	K5	20b.	Write an essay on the economic importance of lichens.