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CHCOND CHARGEED A			
SECOND SEMESTER I	U G DEGREE EXAMI (FYUGP)	NATION, APRIL	2025
CC24UBOT2MN100 - MICR	,	AND PHYTOPAT	HOLOGY
	Botany - Minor Course)		1102001
(20	024 Admission - Regular	·)	
Time: 2.0 Hours			Maximum: 70 Marks
			Credit: 4
Part	A (Short answer questic	ons)	
Answer all ques	stions. Each question ca	rries 3 marks.	
1. Describe the key features of the COVID-	-19 pathogen.		[Level:2] [CO1]
2. Explain capsomeres.			[Level:2] [CO1]
3. Explain thermophiles.			[Level:2] [CO2]
4. Describe the structure of mesosomes in bacterial cells.			[Level:2] [CO2]
5. Explain the significance of pili in bacterial conjugation.			[Level:2] [CO2]
6. Summarise the effect of any three types antibiotics.			[Level:2] [CO2]
7. Explain probiotics and its types.			[Level:2] [CO3]
8. Describe gene therapy.			[Level:2] [CO3]
9. Describe the role of phytoalexins in plan	t immunity.		[Level:2] [CO4]
10. Describe any three cultural practices used	d in disease managemer	nt.	[Level:2] [CO4]
			(Ceiling: 24 Marks)
Part B (Paragraph questions/Pro	oblem)	
Answer <i>all</i> ques	stions. Each question ca	rries 6 marks.	
11. Explain the evolutionary significance of	Whittaker's classification	on.	[Level:2] [CO1]
12. Discuss the key structural difference Mycoplasma.	s between T4 bacter	ophages, prions,	and [Level:2] [CO1]
13. Explain serial dilution and the process of	f serial dilution.		[Level:2] [CO2]
14. Explain the ultrastructure of bacteria.		[Level:2] [CO2]	
15. Explain the phases of the bacterial growth curve.			[Level:2] [CO2]

16. Describe bioaugumentation and its key aspect in environmental remediation.

[Level:2] [CO3]

17. Explain the importance of micro organisms in agriculture.

[Level:2] [CO3]

18. Describe the causitive organism, symptoms and management of Quick wilt of pepper.

[Level:2] [CO4]

(Ceiling: 36 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

19. Explain the structure of gram positive and gram negative bacteria. Give the difference [Level:2] [CO2] in their cell wall.

20. Explain the symptoms of fungal and viral plant diseases on plant health.

[Level:2] [CO4]

 $(1 \times 10 = 10 \text{ Marks})$
