Reg. No	Name	23U130
B. Sc. DEGREE END SE	EMESTER EXAMINATION: NOVE	EMBER 2023
	SEMESTER 1: BOTANY	
COURSE: 19U1CR	BOT1: MICROBIOLOGY AND PHYO	COLOGY
(For Regular 2023 Admission and Imp		
Time: Three Hours		Max. Marks: 60
Times times tied.	PART A	Waxi Warksi Go
	Answer All (1 mark each)	
1. What are microorganisms?	·	
2. What do you mean by probiotics?		
3. What do you mean by pilus in bac	teria?	
4. What do you mean by capsomere	?	
5. Define thallus. Give an example.		
6. Name an alga that produces heter	ocysts.	
7. Fucoxanthin is found in which gro	up of algae?	
8. From which group of algae, alginic	c acid is manufactured?	(1 x 8 = 8)
	PART A	
	Answer any 6 (2 marks each)	
9. What are hormogonia?	la caracida	
10. Comment on the functions of her	·	
11. Differentiate lytic cycle and lysog	enic cycle of virus.	
12. Comment on algae blooms.	ial call mambrana?	
13. What are the functions of bacter14. Write a note on bioremediation.	iai ceii illeilibraile!	
15. Give one example each for a mot	ile and non-motile colonial alga	
16. Give two examples of Biofertilize	_	$(2 \times 6 = 12)$
10. Give two examples of bioleftilize	is and biopesticides.	(2 X U - 12)
	PART C	
	inswer any 4 (5 marks each)	
17. Explain the structure of TMV with	n the help of an illustration.	

- 18. Explain the prokaryotic characters of Cyanophyceae.
- 19. What are pyrenoids? Explain its function.
- 20. Describe asexual reproduction in *Vaucheria*.
- 21. Explain and illustrate the organization of bacterial cell wall with special reference to the polysaccharide and peptide components.
- 22. Give an account of algae Which are used as source of medicine.

 $(5 \times 4 = 20)$

PART D

Answer any 2 (10 marks each)

- 23. Give an illustrated account of asexual reproduction in *Volvox*.
- 24. Explain the process of replication in virus.
- 25. Three domain system of classification is now considered as more phylogenetic and advanced system of classification than five kingdom system of classification. Justify your answer.
- 26. With suitable diagrams, discuss sexual reproduction in *Oedogonium*.

 $(10 \times 2 = 20)$