

QP Code: D 122579		Total Pages: 1	Name:
		Register No.	
<b>SECOND SEMESTER (CUFYUGP) DEGREE EXAMINATION, APRIL 2025</b>			
<b>BOTANY</b>			
<b>BOT2CJ101: MICROBIAL DIVERSITY &amp; PHYTOPATHOLOGY</b>			
<b>2024 Admission onwards</b>			
<b>Maximum Time :2 Hours</b>		<b>Maximum Marks :70</b>	
<b>Section A</b>			
<b>All Question can be answered. Each Question carries 3 marks (Ceiling : 24 Marks)</b>			
1	Define mycoplasma		
2	What is bacteriophage?		
3	What does the HINI stand for?		
4	Give a general outline of archaeobacteria.		
5	Brief account on the enzymes of the bacterial cell wall.		
6	What is acid fast staining?		
7	Write the role of bacteris in nitrogen fixation.		
8	Add note on bacteria in industrial fermentation.		
9	Definition and concepts of diseases.		
10	Find the casual organisms of Tapioca mosaic disease.		
<b>Section B</b> the structure of			
<b>All Question can be answered. Each Question carries 6 marks (Ceiling : 36 Marks)</b>			
11	Describe the structure of virions with neat diagram.		
12	Determine the multiplication process of viruses.		
13	Describe the ultrastructure of bacteria with sketches.		
14	Discuss about the structure and function Cell membrane.		
15	Enumerate the biotechnological applications of extremophiles.		
16	Brief with examples the microorganisms as a biofertilizer and nitrogen fixation.		
17	Analyse the involvement of microbiology in antibiotics and probiotics.		
18	Illustrate the plant diseases giving emphasis on its etiology, epidemiology and management of Bunchy top of Banana		
<b>Section C</b>			
<b>Answer any ONE .Each Question carries 10 marks (1x10=10 Marks)</b>			
19	Elaborate the various types of disease management strategies.		
20	Detailed about the role of bacteria in industrial fermentation, bioaugmentation and biostimulation with examples.		