

QP Code: D141289		Total Pages: 1	Name:
			Register No.
SECOND SEMESTER (CUFYUGP) DEGREE EXAMINATION, APRIL 2026			
BOTANY			
BOT2CJ101 : MICROBIAL DIVERSITY & PHYTOPATHOLOGY			
2024 Admission onwards			
Maximum Time :2 Hours			Maximum Marks :70
Section A			
All Question can be answered. Each Question carries 3 marks (Ceiling : 24 Marks)			
1	Write the history of microbiology.		
2	What is meant by prions?		
3	Give a general outline of eubacteria		
4	Brief account on the effect of antibiotics of the bacterial cell wall.		
5	What is mesosomes?		
6	Define microbiome.		
7	How to maintain the bacterial cell culture?		
8	Add note on antimicrobial resistance,		
9	Find the casual organisms of blast of paddy		
10	Write a short notes on host-parasite interaction.		
Section B			
All Question can be answered. Each Question carries 6 marks (Ceiling : 36 Marks)			
11	Draw and explain the structure of bacteriophages (T4).		
12	Give a general account on viral epidemics and pandemics and its pathogens of covid.		
13	Describe the structure and function of bacterial cell membranes.		
14	Analyse the structure of gram positive and gram-negative cell walls.		
15	Enumerate the role of microbes in therapeutics.		
16	Illustrate the role of bacteria in industrial fermentation.		
17	Explain the fungicidal resistance in plant pathogens and its management.		
18	Predict the defense strategies in plants to pathogens.		
Section C			
Answer any ONE .Each Question carries 10 marks (1x10=10 Marks)			
19	Write detailed about the general characters of viruses with emphasis on occurrence, architecture and multiplication.		
20	Explain the types of gene transfer mechanism in bacteria.		

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Section A			
All Question can be answered. Each Question carries 3 marks (Ceiling : 24 Marks)			
1	Define mycoplasma		
2	What is bacteriophage?		
3	What does the HINI stand for?		
4	Give a general outline of archaebacteria.		
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.		
Section B the structure of			
All Question can be answered. Each Question carries 6 marks (Ceiling : 36 Marks)			
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		
Section C			
Answer any ONE .Each Question carries 10 marks (1x10=10 Marks)			
19	Elaborate the various types of disease management strategies.		
20	Detailed about the role of bacteria in industrial fermentation, bioaugmentation and biostimulation with examples.		