Reg No:		
Name:		

First Semester FYUGP Microbiology Examination NOVEMBER 2024 (2024 Admission onwards) KU1MDCMBG101 (ESSENCE OF MICROBIOLOGY)

K24FY1252

(DATE OF EXAM: 29-11-2024)

$\Gamma im \epsilon$: 90 min Maximum Marks : 50	
P	eart A (Answer any 6 questions. Each carries 2 marks)	
1.	What role do protozoa play in the food web?	2
2.	Which grains are commonly used for making fermented foods like idli and dosa South India?	in 2
3.	How do mycorrhizal fungi contribute to plant nutrition?	2
4.	What are biofertilizers?	2
5.	What is the mechanism by which bacteria develop resistance to antibiotics?	2
6.	What are the benefits of consuming nutraceuticals derived from microorganism	ns?
7.	What is asymptomatic infection?	2
8.	What is biofuel?	2
	Part B (Answer any 4 questions. Each carries 6 marks)	
9.	Discuss the role of microorganisms in public health. How do they contribute disease prevention and control through sanitation, vaccination, and antibiotic velopment?	
10.	Describe the role of yeast in the bread-making process. Explain how it contribute to both leavening and flavor development.	tes
11.	If you were managing a landfill, how would you use microorganisms to enhanbiogas production from solid waste?	nce 6
12.	Compare and contrast the nutritional profiles of different types of edible mushroo	ms
13.	Assess the impact of pandemics caused by viral diseases on global healthcare s tems and economies.	ys- 6
14.	Describe the role of methanogens in biogas production.	6
	Part C (Answer any 1 question(s). Each carries 14 marks)	

- 15. (a) Explain the role of microorganisms in soil health and fertility. How do they contribute to nutrient cycling and organic matter decomposition?
 - (b) Describe the role of microorganisms in public health, focusing on their involvement in disease prevention and control. How are microbes used in vaccines and diagnostic tests?
- 16. (a) Assess the Role of microorganisms in the brewing industry 7
 - (b) Propose the causes, etiology and diagnosis of food-borne pathogens and diseases.