

KERALA AGRICULTURAL UNIVERSITY B.Tech.(Food Technology) 2021 Admission I Semester Final Examination - May 2022

Pafe.1101

General Microbiology (2+1)

Marks: 50 Time: 2 hours

I		Fill in the blanks	(10x1=10	
	1	has described phagocytosis of bacteria.	(20112 20	
	2	2. Many bacteria commonly carry extra chromosomal pieces of DNA called		
		which are able to replicate independently of the bacterial chromosomes		
	3.	3. As per the Three Kingdom Classification System, bacteria are incorporated un		
		kingdom.	1	
	4.	is an organism that is able to tolerate low temperatures.		
	5.	5 is an organism that uses inorganic molecules as a source of electrons.		
	6.	is a group of related genes under the control of a single operator sequence.		
	7.	7 is the ability of a molecule such as a nucleotide base to exist in tw		
		alternative forms.		
	8.	If E.coli is observed through an oil immersion lens, then the final image develop		
	microscope having a size of around \mum. (Eyepiece = 10 X and I		and E.coli size =	
		around 1 μm).		
	9.	Butter delivered to carbon from carbon along.		
	10 is the process by which the message coded in mRNA is con		is converted into	
		sequence of amino acid.		
II		Write short notes on ANY FIVE of the following	(5x2=10)	
		Briefly explain active transport.		
	2.	S		
	3.	J T Printed of Subterior Brown II.		
	4.	i gold agone for controlling iniciobial glowing		
	5.	The state of the s		
	6. 7.	, , , , , , , , , , , , , , , , , , , ,		
	1.	Define antibiotics and mention its important properties.		
III		Answer ANY FIVE of the following	(5.4.20)	
	1.	Write Koch's Postulates.	(5x4=20)	
	2.	What are the functions of bacterial capsule?		
	3.	Write note on conjugation.		
	4.	Write short note on phase contrast microscope.		
	5.	Write note on bacterial translation.		
	6.	Describe classes of antibody.		
	7.	Describe various methods of preservation of microorganisms.		
(V		Write an essay on ANY ONE of the following	(4.40.40)	
	1.	Explain glycolysis pathway along with account for the ATP yield per glucose molecule.		
	2.	Write detailed note on vaccines.	cose molecule.	
		and the on the one.		
