

KERALA AGRICULTURAL UNIVERSITY B.Tech.(Food Engg. & Technology) VIII Semester Final Re- Examination – July 2023 2019 Admission

Fdqu.1202		General Microbiology (1+1)	Marks: 50 Time: 2 hours	
I		Choose the correct answer	(10x1=10)	
_	1	Which one of the following groups produce spores?		
		a) Bacillus &Clostridia b) Coliforms		
		c) Vibrios d) Pseudomonas & Aeromonas		
	2	The killing effect of moist heat on bacteria is through		
		a) Destruction of DNA b) Coagulation of proteins		
		c) Damage of cell membrane d) Inhibition of protein synthesis		
	3	The most commonly used chemical for the disinfection of surfaces and discard jars in the		
		laboratory is		
		a) Phenol b) Quaternary Ammonium Compounds		
		c) Aldehydes d) Iodophores	_	
	4	The organisms that use the electrons from reduced inorganic compounds	as a source of	
		energy, and they use CO ₂ as their principal source of carbon are called		
		a) Photoautotrophs b) Chemoautotrophs		
		c) Photoheterotrophs d) Chemoheterotrophs		
	5	The indicator microorganism used to determine the fecal contamination of	water is	
		a) Coliforms b) Vibrios		
		c) Pseudomonas d) Bacillus		
		Match the following		
		A B		
	6	Transformation a) Acridine orange		
	7	Interchelating agent b) Bread mold		
	8	Chlorella c) Frederick Griffith		
	9	Neusospora crassa d) Gram positive cell wall		
	10	Peptidoglycan e) Non motlile Alga		
II		Write short notes on ANY FIVE of the following	(5x2=10)	
	1	What are the steps involved in replication of viruses?		
	2	Give examples of important RNA viruses.		
	3	Explain the alcoholic fermentation in microorganisms.		
	4	List four important fungi.		
	5	Give the relationship between resolving power- numerical aperture.	•	
	6	Give the details of the experiment of Edward Jenner.		
	7	What is the role of plasmids in bacteria?		
Ш		Answer ANY FIVE of the following	(5x4=20)	
***	1	Explain methods of purification and preservation of pure cultures of bacteri		
	2 With the help of a diagram explain the structure of antibody.			
	3	List major groups of microbial bioproducts.		
	4	Explain the lactic acid fermentation in microorganism.		
	5	Explain the Koch's postulates.		
	. 6	Explain the structure of outer membrane of Gram negative bacteria.		
	7	Explain the bacterial growth curve.		

IV

(1x10=10)

- Write an essay on ANY ONE of the following
 Describe different diagnostic techniques using antigen antibody reaction.
 Compare and contrast a bacterial an a eukaryotic cell.
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