

21BT34

Third Semester B.E. Degree Examination, Jan./Feb. 2023 Microbiology

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.			
Module-1			
1	a.	Give an account on contribution of Joseph lister and Antonie Van Leuwe	enhock in (10 Marks)
	b.	1111010010108).	(10 Marks)
2		OR With a neat labeled diagram, explain the Ultra structure of Bacteria.	(10 Marks)
2	a. b.	Elaborate on the classification and reproduction of bacteria.	(10 Marks)
	U.	Elaborate of the classification and reproduction of vactoria.	(10 1111111)
Module-2			
3	a.	Emplement the present of the second of the s	(10 Marks)
	b.	Explain Simple and differential staining techniques by taking one example for each	1. (10 Marks)
			(10 Marks)
		OR	
4	a.	Differentiate between SEM and TEM.	(10 Marks)
	b.	What is Pure Culture? Explain any two techniques of pure culture.	(10 Marks)
		Module-3	
5	a.	With the graphical representation, explain Growth curve and its stages.	(10 Marks)
3	b.	Explain in detail EMP Pathway.	(10 Marks)
	U.	Explain in dotain Birit Taulway.	
		OR	a.11
6	a.	What is Sterilization? Give an account on a physical method of sterilization in det	(10 Marks)
	b. What is Genetic Recombination in Bacteria? Explain Transformation and Transduction in		
	υ.	bacteria.	(10 Marks)
		Module-4	of Dlague
7	a.	Explain in detail on cause, symptom, disease cycle diagnosis and treatment	(10 Marks)
	h	Give an explanatory note on: i) Ring worm ii) Yeast infection.	(10 Marks)
	U.	Give an explanatory note on . 1) Temig worm in Touse interest	,
		OR	
8	a.	Explain any two Protozoan diseases.	(10 Marks)
	b.		(10 Marks)
		treatment of polio.	(10 Mains)
Module-5			
			(10 Morks)

- 9 a. Explain any two Air sampling techniques. (10 Marks)
 - b. Define SCP. Explain the production process of SCP. (10 Marks)

OR

- 10 a. What are Biofertilizers? Explain the mass production of VAM. (10 Marks)
 - b. Define Bioremediation. Add a note on role of microbes in Bioremediation process.(10 Marks)

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