

CBCS SCHEME

18BT32

Third Semester B.E. Degree Examination, Dec.2019/Jan.2020 Microbiology

"liston		Microbiology				
Tir	ne: 3	3 hrs	orlege 100			
Time: 3 hrs. Max. Max. Max. Max. Max. Max. Max. Max.						
Note: 1. Answer FIVE full questions, choosing ONE full question from each module.						
2. Draw the neat diagrams wherever necessary						
		Module-1				
1	a.	Discuss in detail the ultrastructure of a bacterial cell.	(10 Mawks)			
1	b.	Write a critical note on milestone contribution of Louis Pasteur and Robert Koch.	(10 Marks)			
	υ.	write a critical note on innestone contribution of Louis Pasteur and Robert Roch.	(10 Marks)			
		OR A				
2	0		(10 3 / 1)			
2	a.	Write explanatory note on structure and functions of fungi.	(10 Marks)			
	b.	Write short notes on Prious and Spirochetes.	(10 Marks)			
		No. 14/2				
2	-	Module-2	(40.75			
3	a.	Explain the principle, instrumentation and application and TEM.	(10 Marks)			
	b.	Write a critical note on pure culture technique.	(10 Marks)			
		OP				
4	_	OR	(10) ()			
4	a.	Elaborate on any one different staining technique and its applications.	(10 Marks)			
	b.	Discuss the process of moist heat sterilization.	(10 Marks)			
		Module-3				
5	a.	Derive a mathematical equation explaining growth rate of generation there in bact	eria.			
			(10 Marks)			
	b.	Give a detailed account of TCA cycle Add a note on glucose balance sheet.	(10 Marks)			
		OD				
_		DR OR				
6	a.	Explain the various parameter that affect microbial growth.	(10 Marks)			
	b.	Write a detailed account on secondary metabolites. Explain heterolactic acid pathy				
			(10 Marks)			
		Module-4				
7	a	Give a detailed explanation on AIDS. Add a note on HIV replication.	(10 Marks)			
. /		Explain causative organization, symptoms clinical diagnosis and treatment of dipl				
	U.	Explain causative organization, symptoms enhical diagnosis and treatment of dipl	(10 Marks)			
			(10111111)			
OR						
8	a.	In detail explain, the life cycle of malarial parasite.	(10 Marks)			
	b.	Write a elaborate note on, tuberculosis. Add a note on its diagnosis.	(10 Marks)			

		Module-5	
9		Explain the structure of soil with respect to microbial growth.	(10 Marks)
	b.	Define biofertilizers. Explain the method of isolation and mass production of Rh	izobium.
			(10 Marks)

OR

10	a.	Give a detailed account of N ₂ cycle.	(10 Marks)
	b.	Outline the microbiology of potable water.	(10 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice.