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32096

B.Sc. EXAMINATION, 2025

(Second Semester)

(Re-appear Only)

BIOTECHNOLOGY

Paper-III

General Microbiology

Time: 3 Hours [Maximum Marks: 40

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note: Attempt *Five* questions in all, selecting *two* questions from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1.	Disc	uss the following briefly: 2×2	!=8			Unit II	
	(i)	Phase contrast microscopy		5.	(a)	Elaborate the ultrastructure of bacteria	. 4
	(ii)	Gram positive bacteria			(b)	Write a note on AIDS.	4
	(iii)	Microbial growth curve		((-)	Diamas da maissa ataus af EMD and an	
	(iv)	Differential staining.		6.	(a)	Discuss the various steps of EMP pathwa	1y. 4
		Unit I			(b)	Write a note on C3 cycle.	4
2.	(a)	Explain the transmission elect	ron	7.	(a)	Explain the steps of Kreb's cycle.	4
	` ,	microscopy.	4		(b)	Write about the diseases caused by bacter	ria
	(b)	Discuss about laminar air flow and	its			in man.	4
		types.	4				
3.	(a)	Write a note on physical methods	of			*****	
		sterilization.	4				
	(b)	Discuss about dark field microscopy.	4				
4.	(a)	Explain the different types of microl	oial				
		staining methods.	4				
	(b)	Write a note on autoclaving method	of				
		sterilization	4				