## QP Code: MLM203

Time: 3 Hours

## M.Sc. (M.L.T.) Microbiology 2<sup>nd</sup> Year

## **Advanced and applied Microbiological techniques**

M.M.: 80

Note:	1.) 2.)	Attempt all questions. ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK OF	NI V
	3.)		NL1. )WED/
	4.)	The Student must write Q.P. Code in the space provided Title page of the Answer Book.	on the
		Section-A	
	Write	about the following:	
1.	List methods of transfer of genetic material between bacterial cells. Discuss in detail transfer of genetic material by Conjugation. [8]		
2.	Define Catheter Associated Urinary Tract Infection (CAUTI). Discuss pathogenes prevention of CAUTI.		esis and [8]
3.	Discuss investigations in case of outbreak of infection in burn ward.		[8]
4.	Discuss post exposure prophylaxis after needle stick injury.		[8]
5.	Enume	erate physical methods of sterilization. Discuss in detail sterilization by o	dry heat. [8]
		Section -B	
	Write	about the following:	
1.	Write	about types of vaccines. Discuss recent advances in viral vaccines.	[8]
2.	Role o	of Hospital Infection Control Committee (HICC) in infection control.	[8]
3.		What is Polymerase Chain Reaction? Discuss various types of Polymerase Chain Reactions. [8]	
4.		Write about different types of microscopes used in microbiology. Discuss principle an applications of fluorescence microscope. [8]	
5.	Discus	ss quality control antimicrobial susceptibility testing.	[8]