This question paper contains 2 printed pages]

# NB-23-2023

## FACULTY OF SCIENCE

# B.Sc. (First Year) (Second Semester) EXAMINATION

#### **NOVEMBER/DECEMBER, 2023**

(New Course)

## BIOTECHNOLOGY

 $({\bf Microbiology-II})$ 

(Thursday, 7-12-2023) Time: 10.00 a.m. to 1.00 p.m.					
$egin{aligned} \emph{Sime-Three Hours} & Maximum Maxim$	rks—75				
(ii) All questions carry equal marks.					
(iii) Draw well labelled diagrams wherever necessary.					
. Describe major and minor elements required for microbial growth.	15				
Or					
(i) Describe natural and synthetic media.	8				
(ii) Describe active transport.	7				
Define bacterial growth. Describe bacterial growth curve.	15				
Or					
(i) Describe continuous culture.	8				
(ii) Describe synchronous culture.	7				

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WT			NB—23—2023
3.	Descri	be sterilization by radiation and filtration.	15
		Or	
	(i)	Describe autoclave.	8
	(ii)	Describe sterilization by osmotic pressure.	7
4.	Descri	be alcohol and phenol as disinfectant.	15
		Or	
	(i)	Describe chemotherapeutic agents.	8
	(ii)	Describe pasteurization.	7
5.	Write	short notes on (any three):	15
	(i)	Selective Media	
	(ii)	Diauxic growth	
	(iii)	Tyandallization	
	(iv)	Aldehydes	
	(v)	Osmosis.	