(i)	P	rinted Pages: 2	Roll No					
(ii)	Q	uestions : 9	Sub. Code: 0 1 6 5					
			Exam. Code: 0 0 0 2					
		B.A. /B.Sc. (	General) 2 <sup>nd</sup> Semester					
(2054)								
			ECHNOLOGY					
Paper: BIOT-Elect-SemII-T Foundation of Biotechnology								
Tri Avy								
1111	ieAll	owed: Three Hours	[Maximum Marks: 67					
Note:—Attempt two questions each from Section-A and Section-B. Section C is compulsory.  SECTION—A								
I.	(a)	Discuss the molec organisms.	ular basis of classification of micro 7					
	(b)	State the differences laborateria.	between gram positive and gram negative 6					
II.	(a)	What is an endospo	re ?					
	(b)	Give characteristic f	eatures of viruses. 7					
III.	(a)	What are monosace detect the presence of	charides? Discuss any 2 reactions to of monosaccharides.					
	(b)	State the differences sugars.	between reducing and non-reducing 7					
IV.	(a)	Write a note on phos	phoglycerides. 6					
	(b)	What are fatty acids	? Write its classification. 7					

## SECTION—B

V.	(a)	Write any 4 properties of enzymes.		7
	(b)	Write 3 applications of enzymes in diagnostics.		6
VI.	(a)	Draw the structure of polar amino acids.		6
	(b)	Explain different levels of structures in proteins.		
VII.	(a)	Write the differences between SEM and TEM.		6
	(b)^	Write any 3 applications of UV/Vis spectroscopy	y.	7
VIII	7.	Explain autoradiography.		7
	(b)	Describe southern blotting.		6
		SECTION—C		
		(Compulsory Question)		
IX.	Write short notes on:			
	(a)	Temperature sensitive bacteria		
	(b)	Primary metabolites		
	(c)	Tautomerisation		
	(d)	ELISA		
	(e)	Lambert Beer's law		
	(f)	Purpose of X-ray diffraction.	×2.5=	15