(i)	P	rinted Pages : 2	- Kerrol	Roll No				
(ii)	Q	uestions : 9	Sub	Code:	0 1	6	5	
			Exam.	Code:	0 0	0	2	
		B.A./B.Sc.	(General)	2 nd Semeste	er			
			1059					
		BIO	-TECHNOI	LOGY				
	Pape	er-BIOT-Elect-Sei	m-II-T Four	idation of I	Biotechno	ology		
Ti	me Al	lowed : Three Hou	ırs]	[Maxi	mum Ma	ırks	: 67	
No	te :-	- Attempt five que				ch fi	rom	
		Sections A and B		_	ory.			
			SECTION—					
1.	(a)	Write a note on e	conomic im	portance of	algae and	l funș	gi.	
	4.5			.ozis enoit	suller _i s		7	
	(b)	With the help of woof cell wall and fl			•		ture 7	
2.	(a)	Discuss briefly ho					-	
۷.	(a)	temperature condi		icha are abr	e to sur viv	cain	пgп 7	
	(b)	Draw a bacterial		e showing t	he variou:	s pha	ses	
	(-)	of growth. Discus	COLUMN TO SERVICE AND ADDRESS OF THE PERSON			P	7	
3.	(a)	NATIONAL TO SELECTION OF THE SECOND CONTRACTOR OF THE SECOND SECO						
		and steroids.			ari-M/		7	
	(b)	Describe the structure and functions of three biochemically						
		important disaccha	arides.				7	
4.	(a)	What are lipids?	Classify then	n with suita	ble exam	ples.	7	
	(b)	Explain the struct	ure, properti	es and func	tion of sta	rch.	7	

SECTION—B

			- 40			
5.	(a)	Explain the alpha-helical and beta pleated structure of pr	oteins			
		along with examples.	7			
	(b)	Giving examples discuss the role of enzymes in food proce	essing.			
6.	(a)	Define enzymes. Explain nomenclature and IU classification with suitable examples.	BMB 7			
	(b)	Give the functional classification of proteins along with example of the functional classification of proteins along with example of the functional classification of proteins along with example of the functional classification of proteins along with example of the functional classification of the	mples.			
7.	(a)	Explain the principle and applications of Infrared spectroscopy.	(IR) 7			
	(b)	Discuss the principle and applications of Southern blo	tting. 7			
8.	(a)	Differentiate between neutron and electron diffraction.	7			
	(b)	What is the principle of autoradiography? Discu applications also.	ss its			
		SECTION—C				
9.	(a)	Name two reducing sugars.	1.5			
	(b)	What are anomers?	1.5			
	(c)	What are terpenes?	1.5			
	(d)	Give the function of gas vesicles in case of bacteria.	1.5			
	(e)	Which type of microorganisms are known as alkaloph	iles? 1.5			
	(f)	Write the full form of ELISA, SEM.	1.5			
	(g)	Which region of enzyme is known as its catalytic site and				
		why?	2.0			