	210 Reg i	stration No :		210		210			210			210		210
Tota	al Nu	ımber of Page	s : 02 Semester	Pogulor	/ Pag	k Eve	min	otior	- 2019	2 40			3.Tech :6J001	
	210		IDAMENT	ALS OF I BRAN Time Max I	BIOC ICH: e:3 F Marks	HEMI CHE Hours	CAL M				G	210		210
Aı	Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.													
	210	The f	igures in	the right	hand	l mar	gin i	ndic	ate m	arks		210		210
					Part-	I								
Q1	a) b) c) d)o e) f) g) h) i)	Only Short Ans What are the bay What are the bay Mention the con What do you me What type of bid What are the ap Why sterilization What are the dif Describe the eff Describe the gr fermentation pro	sic strategistic different mplexities the preactors deplications on its required ferent method of the preactor of gas towth association is sociation of the preactor of gas towth association is sociation.	ies of down nees betwe nat found in wald ripeni o you sugg of enzymes d for biopro nods of cells s velocity o	nstrea en up n kine ng? Jest fo s in fo ocessi I disru n mas	m pro strear tic stu 210 or imm od and ing? uption?	cessin and dy of obilized beveraged	ing? I dow a bic ed er erage	ochemi 210 nzyme e indus	syste stries entati	action? ems? ? on brotl	210 ns?	(2 x 10)	210
Q2	Part- II Only Focused-Short Answer Type Questions- (Answer Any Eight out Twelve) a) Briefly explain the modern applications of biotechnology. b) What are the different techniques one can adopt for separation of insolu afterfermentation? 210 210 210 210 C) Describe the five kingdoms classification of microorganism proposed by Whittaker.									(6 x 8)	210			
	d) e) f) g) h) i) k) l)	What is mean immobilization. Describe the Ko Briefly explain of Derived Michae What are the Describe them It. What is solid both. Describe the procell or cluster of Briefly explain process. What are the value of the process.	eshland ind ifferent me lis- Menten different moriefly. state and state and state rocess of concess	uced-fit hy thods of con eguation to the ethods of submerged exygen transmentation factors aff	pothes ontinue for end contr d ferm nsfer e broths fecting	sis for ous st zyme rolling mentations s	enzy eriliza kineti ferm on ai dolog	rme sation? cs fromentation gy fromensf	specific ? om first tion prove son om the fer rate	city. t prineroces me ap air b e in	ciple? s cond oplication bubble fermen	210 lition? ons of to the		210

OF The following data ha		tment methods	? Describe them	briefly.	(16) (16)				
	The following data have been obtained for two different initial enzyme concentrations for an enzyme-catalyzed reaction.								
g/i-min	.14 0.87	0.70 0.59	0.50 0.44	0.39 0.35					
[S] (g/l)	20 10	6.7 5.0	4.0 3.3	2.9 2.5					
210 210 $v(E_0]=0.00875g/I)$ g/I-min	0.67 0.51	0.41 0.34	0.29	210		210			
a)Find Km b)Find Vmfor [E0]=0 c)Find K2	.015 g/l and	[E0]=0.00875	g/l						
210 210 210	210	210	210	210		210			
210 210 210	210	210	210	210		210			
Q6 Explain in details th methane formation?	e production 210	n of biogas ar	nd what are the	factors affecting	g (16)	210			
210 210 210	210	210	210	210		210			
210 210 210	210	210	210	210		210			