Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. - SEMESTER - VII • EXAMINATION - WINTER 2012

Subj	ect c	ode: 170506 Date: 28/12/2012)
_		Name: Biochemical Engineering (Department Elective - I) 30 am - 01.00 pm Total Marks: 70)
Instr		-	
	2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a (b	• -	07 07
Q.2	(a	Derive Michaelis-Menten equation? How are the kinetic parameters involved in it calculated?	07
	(b	Define Growth Yield and the other various Yield Coefficients used in cell culture?	07
	(b	OR) Explain cellular diversity and classify the organism based on cellular organization?	07
Q.3	(a (b	, – – –	07 07
		OR	
Q.3	(a (b		07 07
Q.4	(a (b		07 07
Q.4	(a		07
Q.4	(b) Write in brief on sterilization and scale up of fermenter?	07
Q.5	(a (b	Explain the method of manufacturing of industrial alcohols using biotechnology route?	07 07
0.5	,	OR	o -
Q.5	(a (b	, 1	07 07
