Registra	ation No. :											
Total nu	mber of pr	inted pa	ages – 2								B. Tech PCBT4307	
	Sixth Semester Regular Examination – 2015											
	INDUST	rial		ROB CHN				ND	EN	ZYN	1E	
			BRAN	NCH	: Bl	OTE	СН					
	QUESTION CODE: J 355											
			F	ull Ma	arks ·	<b>- 7</b> 0		NTRA				
			T	ime :	3 Ho	urs	100	Nation	(B)	E		
Aı	nswer Ques The		<b>1</b> which in the ri								e rest.	
1. An	swer the fo	llowing	question	ns :			6	GUN	PUR		2×10	
(a)	Submerg	ed cultu	ıre meth	od.								
(b)	Starter cu	ılture.										
(c)	Auxotrop	hic muta	ınt.									
(d)	Lyophiliza	ation.										
(e)	Feed bate	ch ferme	entation.									
(f)	α-amylas	se										
(g)	β-lactum	ring.				•						

5 ×2

(b) Distinguish between submerged and solid state fermentation..

Briefly describe industrial methods for Penicilline production.

(h) Enzyme stabilisation.

Microbial lipid.

Intramolecular cross linking.

(i)

(j)

(a)

2.

3.	(a)	Michelis and Menten kinetics for enzyme reaction.	5×2
	(b)	Sterilization of media in fermentation.	
4.	(a)	Discuss steps involved in industrial production of ethanol.	5×2
	(b)	Compare between the growth and product formation kinetics between ba and continuous fermentation.	itch
5.	imm	at is enzyme immobilization? Discuss about the types of enzy nobilization and add a note on advantages and disadvantages of enzy nobilisation	
6.		cuss isolation, selection, characterization of microorganisms for the lication in fermentation.	neir 10
7.	Writ	te down short note on any <b>two</b> of the following :	5×2
	(a)	Enzyme stabilization.	
	(b)	Applications of enzyme in medical therapy.	
	(c)	Group transfer redox.	
8.	Wri	te down short note on any <b>two</b> of the following:	5×2
	(a)	Induced mutation.	
	(b)	C-C bond cleavage.	
	(c)	Stock culture.	