## UNIVE

	GIET UNIVE	ERSITY	, GUI	NUP	UR -	<b>- 765</b>	022	
EXCELLENCE OUR RESERVE								RD19MTECH070
Registration No:								
Total Number of Pages: 01		AR-1	10					M.TECH
M	TECH 1 <sup>ST</sup> SEMI			NATI	ONS	NOV/	DEC 2	2019
		otechnolo				MI INIC	N OC	v
Time: 3 Hours	ADVANCED MI	ICKOBIC	JLUG I	ANI	J IIVII	MUNC		Max Marks: 70
	The figures in	the right	hand n	nargin	indi	cate m	arks.	
1		RT-A						(10 X 2=20 MARKS)
1. Answer the following quantum a) Distinguish between		ondary m	etabolit	es. G	ive o	ne exai	mple f	for each?
b) List the industrially	-	•					1	
c) Write two functions	_		f amvla	ses?				
d) What is acquired im	_		J					
e) Name two technique	•	improven	nent?					
f) Define adjuvent?		1						
g) What is the role of p	oenicillin acvlase?	)						
h)What are the factors	•		stabilit	ty of e	enzyn	nes?		
i) What are immunoge	-			<i>J</i>	J			
j) Give two application		l biosenso	or?					
3/	·	RT-B						(5 X 10=50 MARKS)
Answer any five questions t								(
Q:2.a) Give a brief account	nt on primary and	secondar	ry immı	ıne re	spon	se?		
b) Discuss about the f	factors affecting d	ownstrea	m proc	essing	g and	recove	ery of	ethanol?
Q:3.a) Describe the struct	ure of immunoglo	bulin mo	lecules	of fiv	e ma	jor cla	sses a	nd write their
functions?								
b) Write the construct	tion of transgenic	mice alor	ng with	appli	catio	n?		
Q: 4.a) comment on cell c	ytotoxicity assay	and how	to meas	sure it	?			
b) Write a notes on e	nzyme based bios	ensor?						
Q:5.a) Explain about temp	perature Gradient	Gel Elect	trophor	esis (T	ГGGI	Ξ) ?		
b) Discuss about micro	obial growth and	kinetics?						
Q: 6.Discuss in detail about	t the production, 1	ecovery,	stabilit	y and	form	ulation	n of an	nylase enzyme?
Q:7.a) Write a notes on flo	ow cytometry with	significa	ance ?					

- Q:8.a) Write a notes on complement system?
  - b) Discuss about the principle and application of immune fluorescence?