210	210	210	210	210	210	41
Regis	tration No :					
	L					
	mber of Pages: 0					3.Tech
210	210 <b>7</b>	th Semester Reg	210 Jular Examinati	210 ion 2018-19	210 <b>PBT</b>	<b>7J001</b> 210
	•	ENVIRONMEN <sup>*</sup>	TAL BIOTECHI	NOLOGY		
			CH: BIOTECH			
			ne : 3 Hours : Marks : 100			
		Q.C	ODE : E030			
Answei	Question No.1 (F	Part-1) which is o	compulsory, ar om Part-III.	ny EIGHT from P	Part-II and any	TWO <sub>21</sub>
	The fig	gures in the righ		indicate marks.		
<b>Q1</b>	Short Answer Typ	oe Questions (Ans	Part- I swer All-10)		(	2 x 10)
a)	What do you mear	•	,		,	,
2 <b>b)</b>	What is electroche	• •	210	210	210	21(
c)	What is Lagoon?					
d)	What do you mear	by bioventing?				
e)	What is biofilm? W	rite its importance.				
f)	Define apoenzyme	and holoenzyme.				
g)	What are allosteric	enzyme?				
2 <b>h)</b>	What is operon?	210	210	210	210	210
i)	What is plankton?	•	ms.			
j)	What is activated s	sludge?				
			Part- II			
<b>Q2</b>	Focused-Short A	nswer Type Ques	tions- (Answer	Any EIGHT out of	fTWELVE) (	(6 x 8)
<b>a)</b> 210	What are biosensors? How are they used in environmental monitoring?				210	210
D)	What is biomining?		thods of biomining	ng.		
c)	Discuss about cop				l d.a. a	
d)	Briefly describe the What are xenobio			•	•	
e)	xenobiotic compou			ie various types o	riecalcitrarit	
f)	Discuss about the	mechanism of deg	radation of variou	us types of hydroca	arbons.	
2 <b>ģ</b> )	What is vermicomp	posting? Write the	working mechani	sm of vermicompo	sting? <sup>210</sup>	210
	How competitive a	nd non competitive	inhibitions are ir	mportant in enzyme	e action?	
h)					hilis-Menten	
h) i)	What is Maechili equation?	s-Menten Kinetics	? Derive a line	ear plot of Maed	inio wenten	
•				ear plot of Maed	Wenten	
i)	equation?	' How it can be pro-	duced?	ear plot of Maed	will werten	

210	210	210	210	210	210	210	210
	Q3	Long Answer Type ( Discuss in detail about the bioremediation?	Questions (Ansvout microbial bio	Part-III wer Any TWO ou remediation. Wha	t of FOUR) at are the facto	ors that affect	(16)
210	<b>Q4</b> 210	Give an illustrated ac scenario for biogas te		production and its	applications. W	rite the Indian	<b>(16)</b> 210
	Q5	Outline the process of cities.	(16)				
210	<b>Q6</b> 210	What do you know a enzyme immobilization	about enzyme in and its applica	nmobilization? Witions.	rite the differer	nt methods of	<b>(16)</b> 210
210	210	210	210	210	210	210	210
210	210	210	210	210	210	210	210
210	210	210	210	210	210	210	210
210	210	210	210	210	210	210	210
210	210	210	210	210	210	210	210
210	210	210	210	210	210	210	210