Registration No:															
Tota	l Nu	mber of Paເ	ges: (02	210			210			210			210	<u>B.TECH</u> <u>PBT3I104</u>
		3	rd S€	eme		MIC	ROE H: B	BIOL iotec	OG`	Y	n 20	016-	17		
210					Q.CODE: Y501						210	_			
	Α	nswer Pa The fi					•		-		-				·B.
Q ₂ 1 ₀	a)	Answer the Small pox		owin	gʻqu	estic	ns:	multi	ple t		or da	sh fi	•	210	(2 x 10)
		Pasteur c. l	_ister	d. E	dwar	d Jer	ner								
	b)	Salt and si	ugar	pres	erve	food	s be	caus	e the	y a.	Mak	e the	em ac	id b.	
		Produce a	hypo	tonic	env	ironn	nent	c. D	eplete	e nut	trient	s d.	Produ	ice a	
210		hypertonic o	envir	onme	ent									210	
	c)	Disease tha	at affe	ects i	many	peo	ple a	t diffe	erent	cour	tries	is te	rmed		
		Sporadic b.	Pan	demi	c c. E	pide	mic c	l. End	dem						
	d)	Direct micr	osco	pic c	count	can	be	done	with	the	aid	of a	. Neu	uberg	
		chamber b.	Ana	erobi	c cha	ımbe	rc. N	1inera	al oil	d. Oli	ve oi	il			
210	e)	A mutation that produces termination codon is a. Mis-sense mutation													
		b. Neutral mutation c. Non-sense mutation d. Reverse mutation													
	f)	The following	ng or	ganis	ms h	ave	been	prop	osec	d as s	sourc	es of	single	e cell	
		protein a. B	acter	ia b.	Yeas	sts c.	Alga	e d. /	All the	e thre	ee				
	g)	Biofilms are	e Oft	en F	irst (Color	ized	by (Orgar	nisms	tha	t Hav	ve a -	Thick	
210	h)	₂₁₀ The Term _		is [·]	²¹⁰	ally l	Jsed	for V	iruse	s tha	210 t Infe	ect Ba	acteria	210	

As Defined by Koch, an Individual Cell that Gives Rise to Identical Progency Cells is Called the _____.

Lichen is the symbiotic association of _

Q2	a)	Answer the following questions: Short answer type Calculate specific growth rate, if the culture contain contains 10 ⁴	(2 x 10						
210	,	cells/ml at start and 10 ⁸ cells/ml 4 hours later.							
	b)	Name two bacterial diseases associated with upper respiratory tract							
	,	infection.							
	c)	What is conjugation?							
	d)	Explain the principle of bright field microscopy.							
	e)								
210	f)	What is Enerdoudorf's pathway?							
	g)	What is a halotolerant bacteria?							
	h)	What is the nature of capsule.							
	i)	What are cyanobacteria?							
	j)	Explain principle of vaccine.							
210		Part – B (Answer any four questions) 210 Supplies a rise size of Cream statistics as in detail. Differentiate a between	(40)						
23	a)	Explain principle of Gram staining in detail. Differentiate between the gram +ve and gram –ve bacteria.	(10)						
	b)								
Q 4	a)	What is generalized transduction? What will be the final result, if							
210	,	conjugation takes place between F ⁺ ×F ^{±0} stains?	(10)						
	b)	What are microbial media? Describe different types of microbial media with suitable examples.	(5)						
Q 5	a)	Discuss structure and classification of viruses with suitable examples?	(10)						
210	b)	Explain different staining procedures for bacteria.	(5)						
Q 6	a) b)	Explain glyoxalate pathway with proper explanation of its importance. Explain Bacteriological analysis of water & water treatment.	(10) (5)						
Q7	a) b)	What is mutation? Describe difference type of mutation. Explain Solid state fermentation.	(10) (5)						
28	a)	Describes the biological N2 fixation with proper explanation of its importance?	(10)						
	b)	Explain different skin diseases caused by fungi.	(5)						
Q9 ₂₁₀	a) b)	What is sterilization? Describe methods of sterilization. Explain different types of vaccine. 210 210 210	(10) (5)						