			Reg. No. :														
Question Paper Code: U3B05																	
		B.E.	B.Tech. DEGI	REE E	EXAN	1INA	ATIC	)N, 1	VOV	/ 202	22						
			,	Third	Seme	ester											
				Biote	chnol	ogy											
		2	1UBT305- BIC	OCHE	EMIC	AL N	/IET	'AB(	OLIS	SM							
			(F	Regula	ations	202	1)										
Duration: Three hours Maximum:								n: 10	100 Marks								
			Ans	swer A	All Qı	uestic	ons										
			PART	A - (1	0x 2 =	= 20	Mar	ks)									
1.	Draw the structure of Mitochondria and label it							CO1- U									
2.	Write a short note on oxysomes of mitochondria							CO1- U									
3.	Is pl	hotorespiration a u	seful process?	Justif	y you	your answer CO3- Ana											
4.	If the temperature is high which photosynthetic pathway will occur? Write a CO short note on that pathway.							03-	Ana								
5.	List the amino acids which helps as precursors in neurotransmitter formation							on	CO1- U								
6.	Draw the overview of protein metabolism								CO1- U								
7.	Drav	w the overall meta	bolism how ke	tone l	oodies	s are	form	ned a	and	utiliz	ed.		CO1- U				
8.	Writ	te a short note on	CTP synthesis.										CO1- U				
9.	Writ	te a short note on	system biology										CO1- U				
10.	List	some tools for Ho	listic approach	nes.									CO1- U				
			PAR	T – B	(5 x	16=	80N	larks	5)								
11.	(a)	Explain in detail	how ATP synt	hesis Or	occur	rs in l	ETC					CC	)1- U	J	(16)		
	(b)	Explain in detail metabolism.	different types	ofen	ergy	react	ions	occi	urs c	lurin	g	CC	)1- U	J	(16)		

12.	(a)	(a) Write a detailed note on glucose oxidation Or		(16)				
	(b)	Explain in detail Blackman's reaction in photosynthesis and differentiate it from Hatch and Slack pathway.	CO1- U	(16)				
13.	(a)	Explain in detail how protein obtained by diet is absorbed the body and give an overview of its metabolism.	CO1- U	(16)				
	(b)	How amino acids are metabolized and used for first line of defence by immune system and neurotransmitter formation. Explain in detail	CO1- U	(16)				
14.	(a)	Write a detailed note on lipid metabolism disorders. Or	CO1- U	(16)				
	(b)	Write a detailed note on nucleic acid metabolism disorders.	CO1- U	(16)				
15.	(a)	Explain in detail how a problem raised in a biological system could be sort by a system developed model with an example and write its advantages.	CO2- App	(16)				
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	(b)	Explain in detail how a data acquired from various results were	CO2- App	(16)				

(b) Explain in detail how a data acquired from various results were CO2- App (16) correlated by designed system model to analyze the problem with an example and write its advantages of integrated data.