Seat No.:	

P.T.O.

ME-116

March-2019

B.Sc., Sem.-III (Repeater)

CC-202: Biochemistry

Time: 2.30 Hours [Max. Mark			s: 70			
Instructions:		(1)	Figures on the right indicate marks.			
(2) All questi			(2)	All questions are compulsory.		
			(3)	Draw figure wherever necessary.		
1.	(A)	Disc	uss the	e technique of Cell Fractionation to separate Cell organelles in detail.	14	
				OR		
		Ansv	ver the	e following:		
		(i)	Disc	uss the Functions of Plasma membrane.	7	
		(ii)	Drav	v and discuss the structure of Mitochondria.	7	
	(B)	Ansv	ver the	e following (any Four) briefly:	4	
		(1)	Writ	e any one function of Ribosomes.		
		(2)	State	e any difference between Prokaryotic and a Eukaryotic Cell.		
		(3)	Drav	v the structure of Nucleus.		
		(4)	Nam	te the two types of Endoplasmic reticulum.		
		(5)	State	e the role of Lysosomes.		
		(6)	Nam	e one Prokaryotic and one Eukaryotic cell.		
2.	(A)	Disc	scuss the functions of Muscles and explain the sliding filament theory.			
				OR		
Answer the follo		ver the	e following:			
		(i)	Expl	ain Nerve conduction.	7	
		(ii)	Writ	e a note on Bone mineralization.	7	
	(B)	Answer the following (any Four) briefly:				
		(1)	Drav	v the structure of a Nerve cell.		
		(2)	Nam	e any two Proteins present in Muscles.		
		(3)	Wha	t is Reflex action?		
		(4)	Nam	e any two factors affecting Bone remodeling.		
		(5)	Nam	e any one Neurotransmitter.		
		(6)	Nam	the bone cells.		

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3.	(A)	Write a note on Thyroid hormones.		14			
		OR					
		Answer the following:					
(i) Write the dietar		(i)	Write the dietary Sources and role of Vitamin C in our body.	7			
		(ii)	Discuss the physiological action of Insulin.	7			
	(B)	Ans	3				
		(1)	Name the two mechanisms of hormone action.				
		(2)	Write the deficiency disease of Vitamin B ₁ .				
		(3)	Write the structure of Niacin.				
		(4)	Name the coenzyme form of Folic acid.				
		(5)	State any two rich dietary sources of Vitamin B ₁₂ .				
4.	(A)	Disc	14				
		OR					
		Answer the following:					
		(i)	Discuss the functions of Heart.	7			
		(ii)	Write a brief note on ECG.	7			
	(B) Answer the following (any Three) briefly:		3				
		(1)	Name the heart Sounds.				
		(2)	Define Cardiac cycle time.				
		(3)	What is Stoke volume?				
		(4)	Name any two factors affecting Heart rate.				
		(5)	Define an Artery.				

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