		B.Sc., SemII	
		CC-103: Bio-Technology	
		Biology of Cell	
Time: 3 Hours]			[Max. Marks: 70
1.	Ans	wer the following:	14
	(A)	Explain Chloroplast with suitable diagram.	
		OR	
		Draw labelled diagram of Eukaryotic cell with structural features.	
	(B)	Discus the cytosol and cytoskeleton structure in detail.	
		OR	
		Describe structure and function of Golgisomes and Ribosomes.	
2.	Ans	wer the following:	14
	(A)	Explain ATP production during cellular respiration.	
		OR	
		Describe Anabolism with example.	
	(B)	Explain active and passive transport system in cell.	
		OR	
		Discuss photosynthesis process.	
3.	Ans	wer the following:	14
	(A)	Describe cell ageing in detail.	
		OR	
		Discuss Meiosis and give its significance.	
	(B)	Explain Mitosis process.	
		OR	
		Describe cell cycle in detail.	
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4.	Answer the following:		
	(A)	Discuss cell signaling process.	
		OR	
		Discuss Lac operon in detail.	
	(B)	Write a note on Cell Communication.	
		OR	
		Describe steps of translation in prokaryotes.	
5.	Ansv	wer the following in brief:	14
	(1)	Write any two functions of Peroxysome.	
	(2)	What is function of flagella and cilia?	
	(3)	Give the function of Endoplasmic reticulum.	
	(4)	Give the functions of Mitochondria.	
	(5)	Define: Enzyme.	
	(6)	What is Necrosis?	
	(7)	How many ATP are produced during Cellular respiration?	
	(8)	What is Antiport ?	
	(9)	What are stop codon?	
	(10)	Define Facilitated Diffusion.	
	(11)	Define: Pinocytosis.	
	(12)	What is Apoptosis?	
	(13)	Give the function of mRNA.	
	(14)	Define : Plasmodesmata.	

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