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Sl. No.

# 21BTH1C1L

## M.Sc. I Semester Degree Examination, April/May - 2023 BIOTECHNOLOGY

### **Cell and Molecular Biotechnology**

Time	: 3	Hour	s	Maximum Marks : 70	
Note	:	(i)	Answer <b>any five</b> of the following questions with <b>Question</b> each question carries <b>equal</b> marks.	n No.1 (Q1) compulsory,	
		(ii)	Draw neat diagrams wherever necessary.		
1.	Exp	lain	in detail membrane vesicular traffic.	14	
2.	Wri	Write an account on cytoskeletal proteins.			
3.	Explain the role of secondary messengers in cell signaling.				
4.	Describe post transcriptional modifications of m-RNA. 14				
5.	Explain the mechanism of translation in eukaryotes. 14				
	(a)	Wri	te a note on extracellular matrix.	5	
	(b)	Exp	lain cell-cell adhesion.	5	
	(c)	Exp	lain apoptosis.	4	
	(a)	Exp	lain the Lac operon concept.	5	
	(b)	Wri	te a note on enzymes involved in DNA replication.	5	
	(c)	Wri	te an account on Wobble hypothesis.	4	
8.	(a)	Wri	te an account of G-protein receptors.	5	
	(b)	Wri	te a note on transcription factors.	5	
	(c)	Exp	lain salient features of genetic code.	4	

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