7.	Define the word "extracellular matrix". What are different membrane receptors present for extracellular matrix?					
0						
8.	What is carcinogenesis? Discuss various agents responsible causing cancer.					
	causi		11			
SECTION—C						
9.	Expl					
	(i)	Cytosol				
	(ii)	Intrinsic proteins				
	(iii)	Svedberg unit				
	(iv)	Vacuoles				
	(v)	Intermediate filaments				
	(vi)	Collagin				
	(vii)	Membrane receptors				
	(viii)	Translation				
	(ix)	Secretary vesicle				
	(x)	Tonoplast				
	(xi)	Thylakoids				
	(xii)	Power house of cell				
	(xiii)	Nucleolus				
	(xiv)	Plasmodesmata				
	(xv)	Receptor-Ligand interaction 15×2=	=30			

Roll No. Total No. of Pages: 2

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[P.T.O.

AS/2111 CELL BIOLOGY—BTHB-1102T Semester–I

Time Allowed : Three Hours] [Maximum Marks : 74 **Note :-** Attempt *two* questions from each Section A & B and Section C is

compulsory.

SECTION—A

1.	(a)	Differentiate between eukaryotic and prokaryotic cells.	6			
	(b)	Write a brief note on cell fractionation.	5			
2.	Defi	ne cell membrane and enlist its characteristic. Draw well lab	elled			
	diag	ram of Fluid Mosaic Model.	11			
3.	Expl	ain with the help of neat and labelled diagram, structure	and			
	func	tion of microtubules and microfilaments.	11			
4.	(a)	Differentiate between SER and RER.	5			
	(b)	Give a brief note on Biogenesis.	6			
SECTION—B						
5.	(a)	What are lysosomes ? Explain their role as suicidal bags.	5			
	(b)	Discuss the role of ribosomes in protein synthesis.	6			
6.	Drav	v labelled diagrams of chloroplast and mitochondria. Explain	their			
	struc	tural components with functions.	11			

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