B.Sc. F.Y. (CBCS Pattern) Sem-I BIO-01 - Biotechnology Paper-I : Cell & Cell Organelles

P. Pages: Time: Th			J G/W/22/1 Max. Marks 	
1.		nat is cell? Classify the cell on basis of cell shape, cell size, cell volume and onber.	cell	10
		OR		
	a)	Write a note on Nerve cell		2 ½
	b)	Write difference between plant and animal cell.		2 ½
	c)	Draw typical structure of prokaryotic cell		2 ½
	d)	Discuss cell theory & function		2 ½
2.	Exp	plain in details structure of mitochondria.		10
		OR		
	a)	Write a note bacterial cell wall		2 ½
	b)	Explain fluid mosaic model of plasma membrane		2 ½
	c)	Explain structure and function of Nucleus		2 ½
	d)	Discuss structure of chloroplast		2 ½
3.	Exp	plain structure and function of microtubules?		10
		OR		
	a)	Write a note on flagellar locomotion		2 ½
	b)	What are intermediate filaments		2 ½
	c)	Explain dynamic instability.		2 ½
	d)	Discuss role of kinesis and dyneins.		2 ½
4.	Exp	plain mitosis in details.		10
		OR		
	a)	Write a note on cell senescence.		2 1/2
	b)	What is cell differentiation.		2 ½
GUG/W/22/11562		2 1		P.T.O

		c) Gives application of cell synchronization.	2 1/2
		d) Write a note on cell cycle.	2 ½
5.		Attempt any ten.	
	a)	Who is father of cell biology.	1
	b)	Give any two contribution of parkyne.	1
	c)	Give example of prokaryotic cell.	1
	d)	What is the function of Ribosome.	1
	e)	What is function of vacuoles.	1
	f)	What are different types of protein in plasma membrane.	1
	g)	What are function of keratin.	1
	h)	Define cell locomotion?	1
	i)	What are function of vimentin.	1
	j)	What is Karyokinesis.	1
	k)	What is stem cell.	1
	1)	What is cell division.	1
