Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – WINTER 2013

	•	Code: 130402 Date: 07-12-2013 Name: Cell Biology	
Ti	•	2:30 pm – 05:00 pm Total Marks: 70	
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Compare prokaryotic and eukaryotic cells based on their structure. Write a detail account on bacterial cell wall.	07 07
Q.2	(a) (b)	<u> </u>	07 07
	(b)	With neat diagram draw the structural difference between rough and smooth endoplasmic reticulum.	07
Q.3	(a)	Draw the labeled diagram of plant and animal cell, also enlist the differences between them.	10
	(b)	Define the following term with suitable explanation PlasmidMesosomes	04
0.3	(a)	OR Explain in detail how eukaryotic chromosomes are organized?	07
Q.3	(a) (b)	Describe about ultra structure of nucleus.	07
Q.4	(a)		07
	(b)	part. Discuss in detail about the types and chemical composition of lysosome. OR	07
Q.4	(a)	Enlist various components of cytoskeleton network, differentiate the structurally and functionally.	07
	(b)	How peroxisome biogenesis takes place?	07
Q.5		Define the term endospore. Discuss the process of endospore germination. What are the vital roles played by Golgi apparatus in cell? Explain in detail. OR	07 07
Q.5	(a) (b)	Write a detail account on eukaryotic ribosomes. Describe in detail about chloroplast.	07 07
		also describe also describe also describe describe.	
