GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-III • EXAMINATION – SUMMER 2013

DE - SEMESTER-III · EXAMINATION – SOMMER 2013			
Subject Code: 130402Date: 04-06-2Subject Name: Cell BiologyTime: 02:30 pm - 05:00 pmInstructions:Total Marks			
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Enlist and explain in brief differences between prokaryotic and eukaryotic organization.	07
	(b)	Write a note on cell membrane organization.	07
Q.2	(a)	Discuss in detail about chemical composition, nature and functions of cytoplasm in cell.	07
	(b)	Give a detail account on evolution of life.	07
	(b)	OR Define the term vacuoles. Give structural and functional details of it.	07
Q.3	(a)	What are the structural and functional characteristics of ribosome in cell?	07
	(b)	Give a detail account on Gas vesicle.	07
		OR	
Q.3	(a)	Define the term endospore. Write in detail about the formation of endospore.	10
	(b)	Describe the composition and difference between Gram positive and Gram negative bacterial cell.	04
Q.4	(a)	What do you mean by term plasmid? Give detail about it.	07
	(b)	Discuss in detail about Golgi apparatus structure and functions.	07
		OR	
Q.4	(a)	"Mitochondria- the power house of the cell." Justify the statement with explanation.	07
	(b)	Structurally and functionally differentiate between Rough Endoplasmic Reticulum and Smooth Endoplasmic Reticulum.	07
Q.5	(a) (b)	Write a note on Glyoxysome. Lysosome is known as self suicidal bag, with suitable explanation comment on it.	07 07
Q.5	(a)	OR Describe in detail about bacterial flagella.	07
Q	(b)	Explain about organization of Eukaryotic chromosome.	07