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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III (OLD) EXAMINATION – WINTER 2017

Subject Code:130402 Date:17/11/2017

Subject Name: Cell Biology

Time: 10:30 AM to 01:00 PM Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Describe in detail structure and functions of nucleus in eukaryotic cell.	07
	(b)	Draw a labeled diagram of cell membrane with the physiological significances.	07
Q.2	(a)	Give definition of endospore. Write the process of endospore formation.	07
	(b)	Write a brief account on evolution of cell.	07
		OR	
	(b)	Draw a labeled diagram of animal cell.	07
Q.3	(a)	Differentiate prokaryotic and eukaryotic cell with labeled diagram.	10
	(b)	Differentiate between capsule and slim layer.	04
		OR	
Q.3	(a)	Write a note on structural and functional aspect of glyoxysomes.	07
	(b)	Draw the ultra structure of flagella with brief explanation.	07
Q.4	(a)	What are the component parts of mitochondria? Write about its functions also.	07
	(b)	Elaborate types and structure of endoplasmic reticulum.	07
		OR	
Q.4	(a)	What are plastids? Explain their types and role in details.	07
	(b)	How biogenesis of peroxisomes take place in a cell?	07
Q.5	(a)	Enlist and explain differences between prokaryotic and eukaryotic ribosomes.	07
	(b)	Discuss types and functions of lysosome in biological system.	07



(b) What are the differences between Gram positive and Gram negative cell wall?

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