Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph. SEMESTER- VIII-EXAMINATION – SUMMER -2022

Subj	ect (	Code: BP808TT	Date: 06/06/202	2
Time Instru	e: 10 actions Atte Mal	Name: Cell and Molecular Biology :30am to 01:30pm s: empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks. Briefly explain about Transfer RNA (tRNA). Explain the history of cell biology. Explain the structure of microtubules.	Total Marks: 8	0 06 05 05
Q.2	<ul> <li>(a) Briefly explain about the prokaryotic and eukaryotic cell with neat diagram.</li> <li>(b) What is meiosis? Describe the various stages of meiosis division.</li> <li>(c) Describe the structure and function of bacterial cell wall.</li> </ul>		_	06 05 05
Q.3	(a) (b) (c)	What are the check points and their role in Cell cycle? Write an account on nucleosomes. Explain the regularities in protein pathways.		06 05 05
Q.4	(a) (b) (c)	Give a short note on Transcription.  Write a note on the central dogma.  Outline the positive control and significance of protein syn	nthesis.	06 05 05
Q.5	(a) (b) (c)	Explain about mitosis.  Define cell and molecular biology.  Outline of the properties of cells and cell membrane.		06 05 05
Q. 6	(a) (b) (c)	Define the term "secondary messenger". Briefly describe the molecules in signalling pathway.  Differentiate between DNA and RNA.  Explain in detail about the DNA functions.	he role of these	06 05 05
Q.7	(a) (b) (c)	List and briefly define the stages of cell signaling. Write a note on protein kinase. Discuss about the misregulation of cell signalling pathway	rs.	06 05 05

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