QP Code: RM20MSC095	Reg.						AR 20
	No						



GIET UNIVERSITY, GUNUPUR – 765022

M. Sc (First Semester) Examinations, May – 2021

20BTPC101 – CELL AND MOLECULAR BIOLOGY (BIOTECHNOLOGY)

Time: 2 hrs Maximum: 50 Marks

(The figures in the right hand margin indicate marks.) PART-A

Q.1. Answer *ALL* questions

 $(2 \times 10 = 20 \text{ Marks})$

Write short notes on the following:

- a. Telomeres
- b. Okazaki fragments
- c. Nucleolar organizer
- d. Open Reading frame
- e. Anaphase-promoting complex (APC)
- f. Wobble hypothesis
- g. Zygonema
- h. Mutant
- i. DNA gyrase
- j. Oncogene

PART - B (6 x 5 = 30 Marks)

Answer **ANY FIVE** questions Marks 2. Write an essay on molecular mechanisms of membrane transport. (6)Elaborate different modes of cell death and their regulation. (6)4. With a labelled diagram, elaborate on the findings when a cell is observed under a (6)microscope. 5. What are mutagens? Elaborate on physical, chemical, and biological mutagens. (6)Elaborate on structure and assembly of eukaryotic and prokaryotic RNA polymerase. (6)Elaborate on the peculiarities of lysosomes and peroxisomes. (6)Elaborate on Universal Genetic Code. (6)

--- End of Paper ---