M.PHARM. (PHARMACEUTICAL BIOTECHNOLOGY) SEM.-I (CBCS-2019 COURSE): WINTER - 202 | SUBJECT: MICROBIAL AND CELLULAR BIOLOGY

Day Date	; ;	Thursday 18-11-2021 W-2021-20715	Time: 10:00AM/TO 1/00 Max. Marks: 75	
N.B.	1) 2)	Attempt ANY FIVE questions from the following. Figures to the RIGHT indicate FULL marks.		
Q.1	a) b)	Give structures and differences of mRNA, rRNA and tRNA. Write a note on RNA splicing.	,	10) 05)
Q.2	a) b)	What is the central dogma of life? Explain the different process. What is post transcriptional modification of proteins?		10) 05)
Q.3	a) b)	Describe mitochondrial structure and the theory of endosymbic How to isolate pure bacterial cultures? Describe various met respective merits, limitations and significance.	,	07) 08)
Q.4	a) b)	Give in details meiotic cell division. Write a note on crossing over.	•	07) 08)
Q.5	a) b)	What are the factors that determine microbial growth? Which antimicrobials are used in the treatment of common fungal infections? Explain with mechanism of action and example of the common fungal infections?	n bacterial and (07) 08)
Q.6	Wri a) b) c)	ite notes on the following. HeLa cell line Apoptosis Events of fertilization		15)