_____ C. U. SHAH UNIVERSITY Winter Examination-2022

Subject Name: Discipline Specific Elective-II (Microbial Biotechnology)

Subj	ect Cod	e: 4SC05MBT1	Branch: B.Sc. (Microbiolo	ogy)
Seme	ester : 5	Date : 25/11/2022	Time : 02:30 To 05:30	Marks : 70
(1 (2 (3	2) Instru 3) Draw	of Programmable calculator & any actions written on main answer bo neat diagrams and figures (if neo me suitable data if needed.	ook are strictly to be obeyed.	rohibited.
Q-1		Attempt the following question	15:	(14)
	b) c) d) e) f) g) h) i) j) k) l) m) n)	Give a full form of PGPR. Give an examples of microbial b Define Biogas What is RNAi? What is difference between prok Give a full form of IPR. What is Patent? Give the composition of Lignoce	roducing microorganisms. azyme role in clinical therapeutics ased produced polysaccharides. aryotes and eukaryotes? ellulosic waste.	5.
Q-2	npt any A B	four questions from Q-2 to Q-8 Attempt all questions Give the structure of Prokaryotic Give use of bacteria and yeast as	e microorganisms.	(14) 07 07
Q-3	A B	Attempt all questions Give the microbial production of Give a detail note on microbial s		(14) 07 07
Q-4	A B	Attempt all questions Define Bioremediation and Bioth Define a microbial production of		(14) 07 07



Q-5		Attempt all questions	(14)
•	Α	What is biocatalytic process? How it is industrially important?	07
	B	Write applications of RNAi.	07
Q-6		Attempt all questions	(14)
-	Α	Write a note on Bioethanol production.	07
	B	Write note on microbial polysaccharides.	07
Q-7		Attempt all questions	(14)
•	Α	Write a details note on Hepatitis B vaccine Production.	07
	В	What is genetically modified microorganisms? How it is important to industry?	07
Q-8		Attempt all questions	(14)
	Α	Write a note on removal of metals from wastewater.	07
	В	Write about copyright, trademark, and geographical indication.	07

