Enrollment No:	Exam Seat No:
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C. U. SHAH UNIVERSITY

Winter Examination-2020

Subject Name: Principles of Microbiology

Subject Code: 5SC01PMB1 Branch: M.Sc. (Microbiology)

Semester: 1 Date: 08/03/2021 Time: 11:00 To 02:00 Marks: 70

Instructions:

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1		SECTION — I Attempt the Following questions	(07)
		a. Enlist two methods of physical sterilization.	1
		b. Who is Father of Microbiology.	1
		c. Define: Halophiles	1
		d. Name two microbes used in composting	1
		e. Define bioluminescence	1
		f. What are viruses ?	1
		g. Give the full form of E.coli	1
Q-2		Attempt all questions	(14)
	\mathbf{A}	Explain: Biofilm	7
	B	Explain the process of compositing including microbial species	7
0.0		OR	
Q-2		Write a note on any 4 Human diseases caused by the Bacteria with their causative agents, mode of transmission, symptoms, diagnosis, precaution and control	14
Q-3		Attempt all questions	(14)
Q-S	A	Give the general characteristics, name of organism, symptoms, mechanism of causing disease and control measures of Crown gall dieases	7
	В	Explain: Haeckel's and Woese's classification	7
	_	OR	•
Q-3			
~ ~		What is bioleaching and write a detail note on the mechanism of bioleaching with required microorganisms and their methods of leaching	14



SECTION – II

Q-4		Attempt the following questions	(07)
	á	a Define: Competition	1
	1	Define: Barophiles	1
		c. Define: Mutualism	1
		d Define: Biofilm	1
		e. Name any two fermented product	1
		?. Which organisms causes crown gall dieases?	1
	\$	What is the temperature range of thermophilic organisms?	1
Q-5		Attempt all questions	(14)
	\mathbf{A}	Briefly explain cell division cycle of <i>E.coli</i>	7
	B	Explain the production of cheese	7
		OR	
Q-5		Attempt all questions	
	A	What is bioluminescence and explain its mechanism in detail with the names of microbes and their habitat	7
	В		7
	В	Define aeromicrobiology and air- borne pathogens and allergens in brief	,
Q-6		Attempt all questions	(14)
Q U	A	Explain the Angular leaf spot of cotton	7
	В	Explain in about about any four scientist's contribution in microbiology	7
		OR	
Q-6			
		Explain: SCP	14

