Enrollment No:	Exam Seat No:
----------------	---------------

C.U.SHAH UNIVERSITY

Summer Examination-2016

Subject Name: World of microbes

Subject Code: 4LS01MBO1/4SC01WOM1

Branch: B.Sc.(Microbiology)

Semester: 1 Date: 29/04/2016 Time: 10:30 To 01:30 Marks: 70

Instructions:

- (1) Use of Programmable calculator & 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		Attempt the following questions:	(14)
	a)	Define microbiology.	1
	b)	Define thermal death time.	1
	c)	Define immunization.	1
	d)	Define semi-synthetic media	1
	e)	Define pasteurization.	1
	f)	Define immunology.	1
	g)	Define chemolithotrophs.	1
	h)	What is pure culture?	1
	i)	What is QUAC?	1
	j)	Write principle of gram staining.	1
	k)	What are leucostain?	1
	1)	Draw a well labelled diagram of typical bacterial cell.	1
	m)	What is principle of negative staining	1
	n)	Define endospore.	1
Atten	npt any f	Four questions from Q-2 to Q-8	
Q-2		Attempt all questions	(14)
	A	Write in detail: Spontaneous generation theory.	14
Q-3		Attempt all questions	(14)
-	\mathbf{A}	Explain germ theory of disease in detail	7
	В	What is immunization? Explain scope of microbiology in detail	7

Q-4		Attempt all questions	(14)
	\mathbf{A}	Explain all components of a typical bacterial nutrient media.	7
	В	Explain replica plate technique with diagram	7
Q-5		Attempt all questions	(14)
	\mathbf{A}	Explain classification of microorganism on the basis of carbon source.	7
	В	Explain Fluorescent microscopy in detail with diagram.	7
Q-6		Attempt all questions	(14)
	\mathbf{A}	Explain components of cell wall of Gram negative bacteria in detail with	7
		diagram.	
	В	Explain gram staining in detail with process flow chart.	7
Q-7		Attempt all questions	(14)
	\mathbf{A}	Explain classification of dyes in detail.	7
	В	Explain negative staining in detail.	7
Q-8		Attempt all questions	(14)
•	\mathbf{A}	Explain "Heat as physical agent to control microbes"	7
	В	Explain role of iodine as chemical agent to control microbes. Explain phenol	7
		coefficient method	,



