Enrollment No:	Exam Seat No:

## **C.U.SHAH UNIVERSITY**Winter Examination-2015

**Subject Name : World of Microbes** 

Subject Code: 4LS01MBO1/4SC01WOM1 Branch: B.Sc (Microbiology)

Semester :1 Date :9/12/2015 Time :10:30 To 1:30 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>b</b> )	Define Immunization.	1
	<b>c</b> )	Define synthetic media	1
	<b>d</b> )	Enlist basic sources in media.	1
	e)	Define chemolithotrophs	1
	<b>f</b> )	Write composition of N-Agar media	1
	<b>g</b> )	Define autotrophs	1
	h)	Write examples of any 4 gram negative microorganisms	1
	i)	Define numerical apperture	1
	.j)	Define resolution	1
	<b>k</b> )	Draw schematic diagram of electron microscope	1
	1)	Define chromophores	1
	m)	<u>-</u>	1
	n)	Enlist chemical methods to control microorganisms.	1
Q-2		Attempt all questions	(14)
Q-2		Attempt all questions Explain Spontaneous generation theory.	(14)
	a	i i i	7
	b	Explain pure culture concept and fermentation.	7
Q-3		Attempt all questions	(14)
	a	Explain germ theory of disease.	7
	b	Explain contribution given by scientist Luis Pasteur	7

Q-4	Attempt all questions	(14)
a	Explain Semisolid media and solid media.	7
b	Explain differential and selective media.	7
Q-5	Attempt all questions	(14)
a	Explain classification of media on the basis of carbon source.	7
b	Explain parts of compound microscope with diagram.	7
Q-6	Attempt all questions	(14)
a	Explain Gram staining in detail with its principle.	7
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Q-7	Attempt all questions	(14)
a	Explain classification of dyes with examples.	7
b	Explain any 3 biological agents of microbial control	7
Q-8	Attempt all questions	(14)
•	Explain any 3 chemical agents of microbial control in detail	7
	Explain any 5 chemical agents of interoblat control in detail  Explain endospore staining and capsule staining	7
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