

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Winter Examination-2015

Subject Name : Applied Microbiology

Subject Code : 4LS03MBO2/4SC03AMB1

Branch : B.Sc (Microbiology)

Semester :3

Date :10/12/2015

Time :2:30 To5:30

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 airborne diseases	1
	b) Define droplet nuclei	1
	c) Define pasteurisation	1
	d) Give two examples of bioplastics.	1
	e) Write full name of HEPA	1
	f) Enlist strategies of Waste water treatment	1
	g) Enlist type of microorganism found in Activated sludge process	1
	h) Why anaerobic processes are slower than aerobic processes	1
	i) What is MBRT?	1
	j) Write any 4 strategy to preserve food.	1
	k) What is MEOR?	1
	l) Which microorganism causes Q-Fever?	1
	m) Define Rhizospheric Soil.	1
	n) Define symbiosis	1

Attempt any four from Q-2 to Q-8.

Q-2	Attempt all questions	(14)
A	What is composition of Air ? Explain Source of microorganism in air.	7
B	Explain physical methods to control of microflora in Air.	7
Q-3	Attempt all questions	(14)
A	Explain any 2 airborne diseases.	7
B	Explain Activated sludge process in detail	7



Q-4	Attempt all questions	(14)
A	Explain preservation of food in detail.	6
B	Explain MBRT test and Pasteurisation.	8
Q-5	Attempt all questions	(14)
A	Explain food poisoning by <i>Salmonella</i> and <i>C. botulinum</i>	7
B	Explain food spoilage in detail.	7
Q-6	Attempt all questions	(14)
A	Explain rhizosphere and soil as medium for microorganisms.	7
B	Explain carbon cycle in detail with proper flow chart diagram.	7
Q-7	Attempt all questions	(14)
A	Explain all negative types of symbiotic relationships between microbes and environment.	7
B	Explain biodeterioration of textile and paper.	7
Q-8	Attempt all questions	(14)
A	Explain biodeterioration of wood.	7
B	Explain MEOR and bioplastics.	7

