	Enrollm	ent No: _		Exam Seat No:			
			C.U.SHAH U				
	Summer Examination-2018						
	Subject Name: World of Microbes						
	Subject Code: 4LS01MBO1/4SC01WOM1			Branch: B.Sc. (Microbiology)			
	Semeste	er: 1	Date: 03/04/2018	Time: 02:30 To 05:30	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.						
			itable data if needed.	ssary) at right places.			
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Q-1		Attemp	t the following questions:		(1	14)	
	a)	Who is 1	regarded as father of Microbio	logy?			
	b)		epitope?				
	c)		ny selective media				
	d)		nagnification				
	e) f)		ny two gram negative bacteria capsule?				
	g)		yone name of antimicrobial ag	ent			
	h)		utotrophs				
	i)	Define d					
	j)	Define n	umerical aperture				
	k)	Expand	TEM				
	1)		Auxochrome				
	m)		ndospore				
	n)		nyone storage granule present	in bacteria			
Atte	mpt any	four ques	tions from Q-2 to Q-8				
Q-2		Attemn	t all questions		(1	14)	
V -2	a)	_	short note on nutrient media for	or microbial growth	•	7)	
	b)		short note on microscopy	22 11101001112 B10 W111		7)	
Q-3		Attemn	t all questions		(1	14)	
Q J	a)	_	_	bacteria with the help of a lab	•	7)	
	b)	-	short note on acid fast staining	<u> </u>	•	7)	



Write a short note on physical agents of microbial control
Give the nutritional classification of bacteria on the basis of energy source

Q-4

a)

Attempt all questions

(14)

(7)

(7)

Q-5		Attempt all questions	(14)	
	a)	Explain the principle and classification of dyes and stains used in microbial staining	(7)	
	b)	Explain the principle of Gram's staining and flagellar staining	(7)	
Q-6		Attempt all questions		
	a)	Explain the principle and applications of fluorescence microscopy	(7)	
	b)	Explain the germ theory	(7)	
Q-7		Attempt all questions	(14)	
	a)	Write a short note on different types of media used for microbial growth	(7)	
	b)	Differentiate between gram positive and gram negative bacteria	(7)	
Q-8		Attempt all questions	(14)	
	a)	Explain the various modes of active transport of nutrients in bacteria	(7)	
	b)	Write a short note on morphology of bacteria describing the various shapes, size and arrangement	(7)	

