		. 37			•	G (N						
	Enrollm	ent No:				n Seat No: ZED SEE						
	C.U.SHAH UNIVERSITY											
	Summer Examination-2016											
	Subject Name: Microbial Physiology & Biochemistry											
	Subject Code: 4LS02MBO1/4SC02MPB1 Branch: B.Sc.(Microbiology)											
	Semester	emester: 2 Date: 13/05/2016		3/05/2016	Time: 10:30 To 01:30 M			ks: 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		Attemp	ot the followin	ng questions					(14)			
	a) b) c) d) e) f) g) h) i) j) k) n)	Name a Define What d The α a Why ba The pla Name v What is Define What d Nucleon The lipit	Coenzyme. o you mean by nd β cyclic fo ase pair of G – ace at which su various method s the fundament polypeptide. o you mean by tide is composition	y denaturation of D – gluor – C is more stabubstrate binds was to measure contal unit of genory colony formings	of DNA? cose are refule and stro with the enz ell biomass etic inform ng units?	symes is known a	.s					
Atte	mpt any f	-	estions from (
Q-2		Describ	e bacterial gro	owth curve in d	letail.				(14)			
Q-3				n and importance r plate methods	-	culture and descri	be streak pla	te,	(14)			

Atte

Q-2		Describe dacterial growth curve in detail.	(14)
Q-3		Discuss the definition and importance of pure culture and describe streak plate, spread plate and pour plate methods of isolation	(14)
Q-4		Attempt all questions:	(14)
	a)	Name different RNA and describe their structures in detail.	(7)
	b)	Describe the structure and function of mucopolysaccharides.	(7)



Q-5	Attempt all questions					
	a)	Describe secondary structure of protein in detail with diagram.	(7)			
	b)	Describe the classification and function of lipids in detail.	(7)			
Q-6		Attempt all questions	(14)			
	a)	Discuss various factors affecting enzyme activity.	(7)			
	b)	Explain various methods of bacterial cell division in detail.	(7)			
Q-7		Attempt all questions	(14)			
	a)	Discuss different forms of DNA.	(5)			
	b)	Describe properties of triacylglycerol.	(5)			
	c)	Write a short note on functions of cholesterols.	(4)			
Q-8		Attempt all questions	(14)			
	a)	Explain various derivatives of monosaccharide in detail.	(5)			
	b)	Describe the preservation of bacterial culture by liophylisation and cryopreservation.	(5)			
	c)	Classify amino acids based on nutritional values.	(4)			

