	Enrollm	ent No:	Exam Seat No:		
	Linoini		H UNIVERSITY		
	Summer Examination-2016				
	Subject Name : Prokaryotic Metabolism				
	Subject	Code: 4SC04PRM1	Branch: B.Sc.(Microbiology)		
	Semester	Date: 12/05/2016	Time: 02:30 To 05:30 Marks	: 70	
	(2) I (3) I	Use of Programmable calculator	& any other electronic instrument is prohibited. wer book are strictly to be obeyed. if necessary) at right places.		
Q-1		Attempt the following question	ons:	(14)	
	a)	Breakdown of glucose is known	n as		
	b) Lactic acid is produced during anaerobic glycolysis (True/ False)				
	c) d)	Expand ATP. Write the full form of ETC.			
	e)	Which is the simplest amino ac	id?		
	f)	<u> </u>	ple bond is known as unsaturated fatty acids		
	,	(True/ False)			
	g)	What is gluconeogenesis?			
	h)	F1 particles are present in			
	i)	In which part of cell Electron T	ransport Chain occurs?		
	j) k)	Expand PPP What is anabolism?			
	l)	What is phototrophic bacteria?			
	m)	What is bacteriochlorophyll?			
	n)	What do you mean by anaerobi	=		
Atte	mpt any f	Cour questions from Q-2 to Q-8			
Q-2		Attempt all questions			
	a	What is Glycolysis? Write the s		(2+5)	
0.2	b	Write in brief about photosynth	etic pigments.	(7)	
Q-3	a	Explain the following- Gluconeogenesis		(7)	
	b	Oxidative phosphorylation		(7) (7)	
Q-4		Attempt all questions			
	a	Explain in brief about fatty acid		(7)	
	b	Explain in brief about anaerobic	c respiration	(7)	



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Q-5	Write descriptive notes on-			
	a	Photosynthesis	(7)	
	b	Methanogens	(7)	
Q-6				
		Write descriptive notes on-		
	a	TCA cycle	(7)	
	b.	Aerobic Respiration	(7)	
Q-7		Explain the internal structure and functions of mitochondria. Describe its unique significance.	(14)	
Q-8		Attempt all questions		
-	a	Explain why lipids are used as energy reserves?	(7)	
	b	What is ketogenesis? Comment why it is not good for cell?	(7)	

