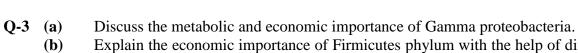
	Enrolln	nent No:	Exam Seat No:	
		C.U.SHAH U	UNIVERSITY	
		Summer Exa	mination-2019	
	-	Name: Bacterial Diversity Code: 5SC02BAD1 er: 2 Date: 16/04/2019	Branch: M.Sc. (Microbiology) Time: 02:30 To 05:30 Marks: 70	)
:	(2) (3)		· · · · · · · · · · · · · · · · · · ·	
			ΓΙΟΝ – I	(07)
Q-1		Attempt the Following questions		
	a. b.	Bacterial cell wall is made up of A cluster of polar flagella is called		
	c.	The L ring in a gram negative bacteri		
	d.		tionary relationship between the taxonomic	
		groups. T/F		
	e.	Square shape is not the basic shape of		
	f.	The growth of bacterial populations f		
Q-2	g.	Chemostat is used to grow bacterial c <b>Attempt all questions</b>	unture continuously. 1/F	(14)
<b>~</b> -	(a)	Explain the significance of 16rRNA i	n systematic bacteriology.	<b>(7)</b>
	<b>(b)</b>		cluding basic characteristics of the seven	(7)
			OR	
Q-2	(a)	Attempt all questions	nificance of phylym Dainessess The	<b>(14)</b>
	(a)		nificance of phylum- Deinococcus-Thermus. netabolic characteristics of phylum Aquifiex	(7)
	<b>(b)</b>	List any four resemblances and for ascomycetes.	ar differences between basidiomycetes and	(7)
Q-3		Attempt all questions		(14)

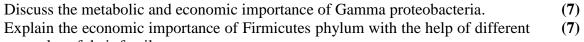


examples of their family.

proetobacteria group.

(a)

**(b)** 





Describe the morphological, metabolic and economic importance of Alpha

Discuss in detail the difference between low G+C and high G+C gram positive

OR

bacteria on the basis of morphology, metabolism and economic importance.

**(7)** 

**(7)** 

## SECTION – II

Q-4		Attempt the Following questions	(07)
	a.	Define taxon.	
	b.	Define photolithoautotrophy.	
	c.	Give the examples of complex media.	
	d.	Define species.	
	e.	Define facilitated diffusion.	
	f.	Define differential media.	
	g.	Define growth.	
Q-5		Attempt all questions	<b>(14)</b>
	(a)	A phylogenetic approach to microbial classification is preferable to a phenetic	<b>(7</b> )
		approach. Enumerate	
	<b>(b)</b>	Write a note on structure and function of bacterial cell wall.	<b>(7</b> )
		OR	
Q-5	(a)	Describe the bacterial endospore formation and structure with the help of labelled	<b>(7</b> )
	. ,	diagram.	, ,
	<b>(b)</b>	Briefly describe three domains into which living organisms may be divided.	(7)
0.6		Attempt all questions	(14)
Q-6	(a)	Give a brief account of ultra structure of flagella. Also discuss the synthesis of	` ′
	(a)	flagella.	<b>(7</b> )
	<b>(b)</b>	Explain the agar deep stabs and agar shakes method for cultivation of aerobic	<b>(7</b> )
		bacteria.	
		OR	
<b>Q-6</b>		Attempt all Questions	
	(a)	Discuss in detail the principle of different media for cultivation of anaerobes.	<b>(7</b> )
	<b>(b)</b>	Compare eubacteria and archaebacteria.	<b>(7</b> )

