	SARDAR PATEL UNIVERSITY B.Sc Examination Semester- III November 2019 Microbiology: US03CMIC02 Fundamental Microbiology II Date: 26 11 2019 Day: .T. In 25 d Cy. Note: # All the question are compulsory. # Figure on the right indicate marks.	l'ime:	2 TO 05 P ir) Marks: 70
	Q.1 Select the right answer. 1. A group of similar species is called [a] Genus [b] genes [c] family [d] kingdom		[10]
	The basic taxonomic group[Taxon] is the [a] species [b] genus [c] strain [d] complex		
	3 Microorganism require organic compound as carbon source are known a [a] Lithotrophs [b] Heterotrophs [c] neutral [d] none of these	s	
	4 . Blood agar is the example of amedium [a] assay [b] differential [c] broth [d] None of these		
	5. Microbiology laboratories maintain a large collection of strain known as. [a] Stock culture collection [b] microprobe [c] micro mechanism	[d] None of these	
	6is method for maintenance and preservation of pure culture. [a] Freeze-drying [b] Persistance [c] Manupulation[d] none of these		
	7 is method for quantitative measurement of growth [a] Direct microscopic count [b] turbidostate [c] synchronous [d] Non of the	980	
	8 The organism which are able to grow in presence of oxygen are called [a] Aerobic [b] Anaerobic [c] Osmophile [d] barophile	***********	
	9 . The word bacteriophage is given by[a] Robert koch [b] Pasteur [c] Twort-d' Herelie [d] none of these		
	10 During transcription, bacteriophage tail fiber is coded by [a] Early genes [b] Delayed early genes [c] late genes [d] None of these) 	View a
	Q.2 Give short answers to following question[Any ten] [1] What is taxonomy? [2] Define [a] strain [b] classification [3] Explain Haeckel's classification system. [4] Discuss role of yeast extract in bacteriological media. [5] Define [a] Phototrophs [b] Autotrophs [6] Write on brief on obligate parasite. [7] Give four example of method for preservation [8] What is synchronous culture? [9] What is growth rate? [10] Draw labeled diagram of typical bacteriophage. [11] Define prophage.		[20]
İ	12] What is the role of repressor protein in lysogeny.		

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Q.3.	[a] Write note on Whittaker's five kingdom concept. [b] Write note on Bergey's Manual of systematic Bacteriology OR	[05] [05]
Q.3.		[05] [05]
Q.4.	[a] Write notes on cultivation anaerobic bacteria [b] Write note on classification of bacteria on the basis of temperature requirement. OR	[05] [05]
Q.4.	Discuss various nutritional types of bacteria in detail.	[10]
	Define Growth. Discuss in detail normal growth curve of bacteria OR	`[10]
Q.5.	Define pure culture. Discuss in detail different methods of isolation of pure culture	[10]
Q.6	Define virulent phage. Explain in detail lytic cycle of phage T2	[10]
Q.6	OR Write notes on: [a] Morphology & structure of Bacteriophages [b] Cultivation of animal viruses.	[05] [05]

