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First Semester B. Sc. Examination MICROBIOLOGY

Paper-I

(History and Microbial Morphology)

	-	(Albert)		
	Tin	ne : Three Hours]	[Max. Marks : 50	
		N. B. : (1) All questions are (2) All questions carr (3) Draw diagrams an necessary.	compulsory. y equal marks d give examples wherever	
	1.	Describe the contribution of Lo Microbiology.	ouis Pasteur in the field of	
-		OR		
		What is Microbiology ? Give of Microbiology.	scope of various branches	
	Describe the structure of cell wall of Gram positi bacteria.			
		OR		
		Define plasmids. Describe variations.	ous types of plasmids and 10	
	3.	(a) Describe various types of bacteria.	of flagellar arrangement in $2\frac{1}{2}$	
ċ		(b) Describe germination of	spore in bacteria. $2\frac{1}{2}$	
		(c) Why endospores are r chemicals and temperate		
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(d)	WWW.rtmnuonline.com Describe asexual spores of fungi in brief. 21/2
	OR
(e)	Write a note on capsule and slime layer of bacteria. $2\frac{1}{2}$
(f)	What are pili? Discuss different types of pili and $2\frac{1}{2}$ its functions. $2\frac{1}{2}$
(g)	a labelled diagram of rings
(h)	Diagrammatically illustrate the process of chaosis $2\frac{1}{2}$ formation.
4. (a)	Explain the Numerical taxonomy method of bacterial classification.
(b)	5
	OR
(c)	Give the salient features of Bergey's manual of determinative bacteriology 9 th edition. 5
(d)	Give the Whittaker's five kingdom system of classification.
5. Ansv	ver any ten questions from the following :-
	Who is the father of antiseptic surgery?
	What is pasteurization?
(iii)	Who isolated the first nitrogen fixing bacteria?
	The state of the first property of $oldsymbol{1}$.
(iv)	Give two examples of storage granules in bacteria.
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*	(v) What is the function of ribosome?	1 .
	(vi) Why the cytoplasmic membrane is known a vital membrane in bacteria ?	s most 1
	(vii) Give the significance of dormancy.	1
	(viii) Give the name of any two endospore pro- bacteria.	ducing 1
	(ix) What are myxospores ?	1
14	(x) What is GC: AT ratio?	1 '
	(xi) Give the significance of classification.	Ļ
78.	(xii) What is meant by phylogenetic classification	? 1
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