JAI-003-1013016 Seat No. Second Year B. Sc. (Sem. III) (CBCS) (W.E.F2016) Examination November - 2019 Microbiology Paper - MB-301 : Microbial Systematics & Environmental Microbiology (New Course) Faculty Code : 003										
Tim	e : 2	1 Ho	Subject Code: 1013016 ours] [Total Marks: 70)						
1	A)	-	wer the following:	Ĺ						
	/	1	What is Classification ?							
		2	Give an example of ideal molecular chronometer.							
		3	The layered or stratified rocks that are formed by incorporation of mineral sediments into microbial mats is called							
		4	Enlist Morphological characteristics of bacteria.							
	B)	Ans	wer in brief: (any one out of two)	,						
		1	Phylogenetic classification							
		2	What is character? Enlist four Ecological characteristics of Bacteria.							
	C)	Ans	wer in detail: (any one out of two)	;						
		1	What is Binomial nomenclature ?							
		2	What is Numerical Taxonomy?							
D) Writ		Writ	te notes on : (any one out of two) 5)						
		1	Taxonomic Ranks of Microorganisms							
		2	Classification systems.							
2	A)	Ans	wer the following:	ŀ						
		1	The cell wall of Mycobacteria contains acid.							
		2	Which disease is caused by Camphylobacter jejuni?							
		3	Write any two features of Family Vibrionaceae.							
		4	What are Actinomycetes?							

	В)	Answer in oriei: (any one out of two)		
		1 Write about Proteobacteria.		
		2 Give general characteristics of Gram Positive Non spore forming rods.		
	C)	Answer in detail: (any one out of two)	3	
		1 Explain: Phototrophic bacteria.		
		2 Explain : Bacillus genus.		
	D)	Write notes on: (any one out of two)		
		1 Extremophiles		
		2 Family Enterobacteriaceae.		
3	A)	Answer the following:	4	
		1 What is coenocytic mycelia?		
		2 Give example of two algae.		
		The pseudopod is found in for uptake of food particle from environment.		
		4 Give two examples of Higher Fungi.		
	B)	Answer in brief: (any one out of two)	2	
		1 Give types of fungi on the basis of mode of nutrition	n.	
		2 What is cyst ? Give its role.		
	C)	Answer in detail: (any one out of two)	3	
		1 Describe : Structure of Algae		
		2 Discuss: Ecology of protozoa		
	D)	Write notes on: (any one out of two)	5	
		1 General characteristics of Fungi		
		2 General characteristics of Protozoa.		
4	A)	Answer the following:	4	
		1 Give two examples of Enveloped virus.		
		2 What is Temperate phage ?		
		3 What is PFU ?		
		4 What is lysogeny ?		

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	В)	Ans	wer in brief: (any one out of two)	Z
		1	Enlist methods of Enumeration of viruses.	
		2	What are Plant viruses?	
	C)	Ans	wer in detail: (any one out of two)	3
		1	Discuss: Structure of virus.	
		2	Describe Lytic cycle.	
	D)	Writ	te notes on : (any one out of two)	5
		1	Classification of Viruses	
		2	Cultivation of Animal virus.	
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5	A)	Ans	wer the following:	4
		1	What is Environmental Microbiology?	
		2	What is Biodegradation ?	
		3	What is air pollution?	
		4	What is MEOR ?	
	B)	Answer in brief: (any one out of two)		2
		1	What is droplet nuclei ?	
		2	Name the organisms causing deterioration of paper	
	C)	Ans	wer in detail: (any one out of two)	3
		1	Explain Metal corrosion.	
		2	Explain Biomagnification of pesticides.	
	D)	Writ	te a note on (any one out of two)	5
		1	Methods of Air Sanitation	
		2	Bioremediation.	