

JAI-003-001320

Seat No. ____

B. Sc. (Sem. III) (CBCS) Examination

November - 2019

MB - 301 : Microbiology

(Microbial Diversity) (Old Course)

Faculty Code : 003
Subject Code : 001320

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Time: 2	$2\frac{1}{2}$ Hours]			[Tot	tal Ma	arks :	70
Instruct	ions: (1) (2) (3)	Figures o questions.	ons are common the right	indicate			of
1 Ansv	wer the follo	owing:				20×1=	=20
(1)	What is evolution ?						
` /	Define: Phy						
` '	•		ot of Numeri	ical Taxo	nomy	?	
	What is Molecular Chronometer?						
(5)	The Extrace	ellular exte	ension proces	sed by r	numbe	\mathbf{rs} of	
	the stalked	bacteria i	s called a $_$				
(6)	What are N	Methanoger	ns?				
(7)	What are I	Halophiles	?				
(8)	Treponema	Pallidum, c	ausative ager	nt of syph	ilis bel	longs	
	to						
(9)	Define : Ar						
(10)		a, Shigella acteria.	, Yersinia ar	nd Serra	tia ar	e all	
(11)	Enlist the clostridium.		diseases th	at are	caused	d by	
(12)			e, acetic and	lactic aci	d prod	lucer	
` '	-		geni		•		
(13)	What are I	_	J				
(14)	Agar-Agar,	carrageeni	n and funor	ri are al	1 obt	\mathbf{nined}	
	from	•					
(15)	The study	of fungi is	called	•			
(16)	Define: Tha	ıllus.					
, ,	What is Pla	-					
	-		known as _		•		
			Bacteriophage).			
	Define: Cap	sid					
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2	(a)	Answer specifically : (any three)	3×2=6	
_	(00)	(1) What is Alpha Taxonomy?		
		(2) What is Zooglea?		
		(3) What is Houstoria ?		
		(4) Write the importance of Taxonomy.		
		(5) Write about Rickettsia.		
		(6) Describe in brief the general features of		
		mycoplasma.		
	(b)	Answer specifically (any three)	3×3=9	
	(,,,	(1) Discuss Bdellovibrio.		
		(2) Write a note on Thermophiles.		
		(3) Discuss Whittaker's five kingdom classification	on.	
		(4) Economic importance of Algae.		
		(5) Explain reproduction in protozoa.		
		(6) What is/are molecular chronometers ?		
	(c)	Write short note on: (any two)	$5\times2=10$	
	` '	(1) Describe Chlamydia.		
		(2) Economic importance of fungi.		
		(3) Explain life cycle of virus in detail.		
		(4) Numerical taxonomy.		
		(5) Discuss Endospore forming bacteria.		
3 (a)		Answer specifically : (any three)	$3\times2=6$	
		(1) Write the importance of taxonomy.		
		(2) What are the proteobacteria?		
		(3) Write the characteristics of fungi.		
		(4) How many types of pigments are present in	l	
		Algae.		
		(5) What is pinocytosis?		
(6)		(6) Explain the structure of TMV.		
(b)		Answer specifically : (any three)	$3\times3=9$	
		(1) Describe the characteristics of Actinomycetes	.	
		(2) Write about Mycoplasma.		
		(3) What is prions?		
		(4) Write a note on occurrence of Algae.		
		(5) Discuss lysogeny cycle of virus with example	е.	
		(6) Discuss ultra structure of Algal cell.		
(c)		Write short notes on: (any two)	$2\times5=10$	
		(1) Discuss sexual reproduction of fungi.		
		(2) Explain about taxonomic ranks.		
		(3) Describe about photosynthetic bacteria.		
		(4) Explain replication of animal virus.		
		(5) Write note on Extremophiles.		