

PAP-003-001525 Seat No. _____

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

October / November - 2018

MB - 501 : Applied Microbiology (Old Syllabus)

Faculty Code: 003

Subject Code: 001525

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Tim	e : 2	$\frac{1}{2}$ Hours] [Total Marks : 70
Inst	ruct	ions: (1) All questions are compulsory.
		(2) Draw figure wherever necessary.
		(3) The right side figure indicates marks of the question.
1	Ansv	wer in short : 20
	(1)	Name the process in environment which continuously add more soil to the surface of the earth.
	(2)	is the space between the particles.
	(3)	Which is the example of Ammensalism?
	(4)	Give example of symbiotic nitrogen bacteria.
	(5)	Name two organisms causing food poisoning.
	(6)	Central AGMARK laboratory is located at
	(7)	Give two examples of functional food.
	(8)	What is Rancidity?
	(9)	What is HTST ?
	(10)	What is MBRT ?
	(11)	Which organisms are helpful during cheese manufacturing?
	(12)	Which sugar is present in milk?
	(13)	Name types of sand filters.

(14)	What is BOD and COD?		
(15)	Septic tank is used in which of the waste water treatment?		
(16)	Give two examples of water disinfecting agents.		
(17)	Give two examples of Pesticides.		
(18)	Name two major air pollutants.		
(19)	Name the organism used in production of Bioplastic.		
(20)	Define Bioleaching.		
(a)	Write in short : (any three)		
	(1) Enlist bacteria and fungi in soil.		
	(2) Write two methods of food preservation.		
	(3) What is 'Estuary'?		
	(4) What is COD and BOD ?		
	(5) What is MEOR?		
	(6) Define: Rhizosphere.		
(b)	Write in brief: (any three)		
,	(1) What is co-metabolism?		
	(2) What is spoilage of food?		
	(3) Which are fermented dairy products?		
	(4) Define Water Pollution.		
	(5) Define Biofuels.		
	(6) Explain Biomagnification of Pesticide.		
(c)	Write short note on: (any two)	10	
()	(1) Carbon Cycle		
	(2) Food borne infections		
	(3) Microbial analysis of milk		
	(4) Waste water treatment		
	(5) Air pollution.		
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(a) Write in short: (any three) 3 6 (1) What is Winogradsky's column? (2) What is SCP? (3)What is UHT milk? (4) Enlist processes carried out by municipal waste water treatment. Define Bioleaching. (5)What are xenobiotic compounds (6) Write in brief: (any three) (b) 9 What is soil profile? **(1)** (2)Define Commensalism. (3)Write types of spoilage in milk. What is Trickling filter? (4) (5)Define Biosurfactants. Enlist the physical and chemical conditions (6)prevailing in Aquatic environment. Write short note on: (any two) 10 (c) (1) N₂-Cycle (2)**MBRT** (3)Water purification methods

(4)

(5)

Biotechnology as an interdisciplinary science.

Solid waste management