

BCF-003-001525

Seat No.

B. Sc. (Sem. V) (W.E.F. 2012) Examination

August - 2021

MB - 501 : Microbiology

(Applied Microbiology)
(Old Course)

Faculty Code: 003

Subject Code: 001525

Time : $2\frac{1}{2}$ Hours] [Total Marks : 70]

Instructions: (1) All questions are compulsory.

- (2) Right side figures indicate mark of the questions.
- (3) Draw the figure wherever necessary.
- 1 Answer following questions in short:

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- (1) Give two examples of denitrifying bacteria.
- (2) Explain pasteurization of milk.
- (3) Give full form of MBRT.
- (4) What is Rancidity?
- (5) Write full form of HTST pasteurization.
- (6) Define: Milk.
- (7) Give full form of B.O.D. and C.O.D.
- (8) What is skimmed milk?
- (9) Give full form of M.P.N.
- (10) Give types of milk spoilage.
- (11) Which enzyme is used to make cheese?
- (12) Define Kefir.
- (13) Name any two methods to preserve milk.
- (14) Define starture culture.
- (15) Recovery of valuable mineral from low grade ore with microbial process is known as _____

	, ,) Give full form of MEOR.) Define Bioplastic.		
	(20)	Give	e full form of PHAS.	
2	(A)	Answer in short: (any three)		6
		(1)	What is "Functional Food"?	
		(2)	Write types of milk.	
		(3)	What is Biofuel?	
		(4)	Write about single cell protein.	
		(5)	Explain AG Mark.	
		(6)	Explain bread as fermented food product.	
	(B)	Ans	wer in short : (any three)	9
		(1)	Define Pollutants.	
		(2)	Describe process of purification of water.	
		(3)	Write role of bio-surfactant in reduction of pollution.	
		(4)	Disadvantage of bioplastics.	
		(5)	Write environmental conditions that affect	
			bioleaching.	
		(6)	Write a note on natural water.	
	(C)	Wri	te short note on : (any two)	10
		(1)	Nitrogen cycle.	
		(2)	MBRT	
		(3)	Bacteriological analysis of water	
		(4)	Spoilage of milk	
		(5)	Sulphur cycle	
3	(A)	Answer in short: (any three)		6
		(1)	Enlist biochemical conversions in Nitrogen cycle.	
		(2)	Define: Biogeochemical cycle.	
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(16) What are pollutants?

(17) Give types of pollutants (only names).

- (3) Write about Winogradky's column.
- (4) Write names of any two organisms found in milk.
- (5) Define food born infection and intoxication.
- (6) What is sausage?
- (B) Answer briefly: (any three)

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- (1) What is Humus?
- (2) How spoilage of milk and milk products occur?
- (3) Write about canning process.
- (4) Write beneficial interaction among soil microbes.
- (5) Write advantages to use Bioplastics.
- (6) Explain: Biotechnology as interdisciplinary science.
- (C) Write short note on: (any two)

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- (1) Carbon cycle.
- (2) Food poisoning.
- (3) Grading of milk.
- (4) Pasteurization process and its type.
- (5) Cheese making process.