SUB.	CODE:	18UMB	6 <b>M3B</b>
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**REG.NO:** 



## DHANALAKSHMI SRINIVASAN COLLEGE OF ARTS & SCIENCE FOR WOMEN (AUTONOMOUS)



(For Candidates admitted from 2018-2019 onwards)

## **UG DEGREE EXAMINATIONS APRIL - 2021**

## **B.Sc., - MICROBIOLOGY**

## MICROBIAL TECHNOLOGY

Time: 3 Hrs	Max.Marks: 75				
PART - A					
CHOOSE THE CORRECT ANSWER  1. The type of fermentation observed in yeast is  (10X1=10)					
a) Acrylic fermentation b) Lactic acid ferment	ntation				
c) Pyruvic fermentation d) Alcoholic fermenta	ation				
2. The continuous culture of fermentation can be used to produce					
a) Biomass b) primary metabolites					
c) Secondary metabolites d) Antibodies					
3. A continuous bioreactor in which only the flow rate is used to control the rate of cellor product					
productivity is called					
a)Turbidostat b) Chemostat c) Level s	stat d) PH				
4. The Aeration is mainly provided to organisms present in					
a) Submerged culture b) Solid state culture	c) Surface culture d) Batch culture				
5. Sarcina sickness of beer is caused by					
a) Saccaharomyces cerevisiae b) Pedicoccus cerevisiae					
c) S. carlsbergensis d) Zygomonas anaeroium					
6. A Trickling filter is used for					
a) Antibiotic production b) Beer productio	on				
c) Citric acid manufacturing c) Waste water treatment					
7. Penicillum camemberti is used for ripening of					
a)Roquefort cheese b) Camembert cheese	c) All cheese d) Fruits				
8. Which of the following is the genetically engineered insulin					
a) Humulin b) Rumulin c) H- Insu	ulin d) R- Insulin				
9. The production of enzyme is mostly carried out by					
a) Batch fermentation b) Contin	nuous fermentation				
a) F-11 ( 1 C	batch fermentation				

10. Azolla is used as E	Biofertilizer as it has			
a)Rhizobium	b) Cyanobacteria	c) Mycorrhiza	d) Large quantity of humus	
		PART - B		
ANSWER ALL THE QU	UESTIONS		(5X7=35)	
11. a) Explain in detail	on Industrially importan	t Microorganism?		
	(OR)			
b) Write a short note	e on Microbial enzymes	?		
12. a) Write in detail or	types of valves in ferm	enter?		
	(OR)			
b) Explain the basic	functions of a fermenter			
13. a) Write in detail or	Single Cell Protein? ar	nd its application?		
	(OR)			
b) Write a brief acc	ount on mass cultivation	n of Spirulina.		
14. a) Explain in detail	on production of Vitam	in B12?		
	(OR)			
b) Explain in detail	on production of Insulin	1?		
15. a) Explain in detail	on production of L-glut	amic acid?		
	(OR)			
b) Write in detail on	production and uses of	Amylase enzymes?		
		PART - C		
ANSWER ANY THREE	E QUESTIONS		(3X10=30)	
16. Explain in detail or	n Fermentation process?			
17. Elaborate in detail	on types of Fermenters?			
18. Write in detail on Cheese production?				
19. Discuss in detail or	n production of Penicill	in?		
20. Explain briefly on	Citric acid production?			