Roll No	Total No. of Print	ted Pages : 4
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Fourth Semester Online Examination, May-June, 2022		
	CROBIOLOGY per II	
INDUSTRIAL M	•	AND
FERMENTATI Time: Three Hours]	ON TECHNOLO [Maximum	OGY n Marks : 80
be answered in oPart C (Short anstype) of each quest	wer type questions one or two sentence	which are to es. Long answer wered within
Unit-I		
1. (A) Why fermenter is	s used?	2
(B) What is antifoam	?	2
(C) Write the different continuous ferme		batch and
	Or	
Write the differer	nces between prima	ry screening

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	(D) Explain the design and applications of fermenters.	
	12	
	Or	
	Explain the scale-up of fermentations.	
Unit-II		
2.	(A) Define microbial strain. 2	
	(B) Draw schematic diagram of Protoplast fusion. 2	
	(C) Describe DNA shuffling. 4	
	Or	
	Describe Cassette mutagenesis.	
	(D) Explain the role of environmental factors and	
	genetic factors for improvement of strains. 12	
Or		
	Explain down stream processing in Industrial	
	Microbiology.	
Unit-III		
3.	(A) Define Auxotrophic mutant. 2	

(B) What is Alarmone?

enzymes. 4 Or Write applications of Amylases and Proteases enzymes. (D) Explain the methods of commercial enzyme production. 12 Or Describe production process for vitamins. **Unit-IV** 4. (A) What are the percent of alcohol in Beer and Wine? 2 (B) What is Pasteur Effect? 2 (C) Write the applications of amino acids in health and food industry. Or Write the mode of action of Tetracyclin and streptomycin.

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(C) Describe the methods available for immobilizing

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(D) Explain the wine fermentation. 12

Or

Describe commercial production of Penicillin.

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