## B.Sc. (Part—III) Semester—VI Examination 6S: MICROBIOLOGY

## (Industrial Fermentations, Food Microbiology and Metabolism)

Time : T	hree	Hou	urs]		[Maximum Maximum Maxim	Marks : 80
Note :-	-(1)	All	questions are compulse	ory.		
			w neat and labelled di	-	er necessary.	
1. (A)	Fill	in t	he blanks :—			2
	(i)	i) Yeast is used in the bakery during fermentation of brea				
		) Waste sulfite liquor is raw material for production of				
		(iii) Kreb cycle is also known as				
		v) is major protein present in milk.				
(B)			the correct option :			2
	(i)	Naı	me of milk sugar is:			
		(a)	Glucose	(b)	Lactose	
		(c)	Dextrose	(d)	Arabinose	
	(ii)	Bot	ulism is :			
		(a)	Food infection	(b)	Food intoxication	
		(c)	Fever	(d)	Nausea	
	(iii)	The	end product of glycol	ysis is :		
		(a)	Lactic acid	(b)	Citric acid	
		(c)	Pyruvic acid	(d)	Acetic acid	
	(iv) In LTH method for pasteurization of milk temperature is :					
		(a)	50°C	(b)	60°C	
		(c)	70°C	(d)	62.8°C	
(C)	(C) Ans		wer the following in one sentence:—			
- *	(i)	Pas	teurization			
	(ii)	Fen	mentation			
	(iii)	Foo	nd intoxication			
	(iv)	Ant	ifoam agent.			
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2.	(a)	Give any one method for sterilization of production media in brief.	-
	(b)	Draw well labelled diagram of fermentor.	4
	(c)	Describe in brief batch and continuous fermentation.	
		OR	
	(d)	Describe enrichment culture technique of primary screening.	1
	(c)	Describe inoculum build up.	
	(f)	What is production strain?	4
3. (a) (b)	Draw well labelled diagram of fring's generator.	2.1	
	(b)	b) Draw flowsheet diagram for Acetone-Butanol Production from corn.	
	(c)	Discuss raw materials and conditions of alcohol production.	4
		OR	
	(d)	Draw flow-sheet diagram for Beer.	4
	(c)	What is wine and give its classification?	4
	(f)	Give industrustrial uses of citric acid.	4
4,	(a)	Describe in brief industrial production of SCP from bacteria.	4
	(b)	What is amylase? Give its uses.	.1
	(c)	Draw flow-sheet diagram for production of Baker's yeast.	4
		OR	
	(d)	Draw flow-seet diagram for penicillin production.	4
	(e)	Describe in brief Active Dry Yeast (ADY).	4
	(f)	Explain in brief recovery and purification of penicillin.	4
5.	Wh	at is Cheese? Describe in detail production process of cheese.	12
		OR	
	Wh	at is pasturization? Describe in detail HTST pasteurization process for milk.	12
6.	(a)	Give difference between food infection and food intoxication.	4
	(b)	What is botulism? Describe in brief.	4
	(c)	Give two methods for food preservation.	4
		OR	
	(d)	Describe in brief production of Idli.	4
	(e)	Describe Spoilage of pickles.	4
	(f)	Describe preservation of foods by high osmatic pressure.	-1
7.	Des	cribe in detail EMP pathway.	12
		OR	
	Des	cribe in detail Enzyme classification.	10
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