## Bachelor of Science (S.Y.B.Sc.) Third Semester

## B.Sc. 2362 - Microbiology : Paper-II (Industrial and Food Microbiology)

P. Pages: 2 Time: Three Hours			* 0 9 8 6 *	GUG/W/18/1273 Max. Marks : 50
1.		Explain primary scree	ning in detail.	10
			OR	
		Explain production of	citric acid in detail.	10
2.		Describe the production	on of cottage cheese with flow sheet diagram.	10
		D: 1 1100	OR	10
			nethods of food preservation.	10
3.	a)	Explain methods of str	rain development.	21/2
	b)	Explain industrial prod	duction of lysine.	21/2
	c)	Discuss the different s	ources of microorganism in milk.	2½
	d)	Explain the concept of	f HACCP.	2½
			OR	
	e)	Add a note on batch fe	ermentor.	2½/2
	f)	Write in brief about et	hanol production.	2½
	g)	Explain phosphatase to	est to determine pasteurization of Milk.	2½
	h)	Discuss factors respon	sible for food spoilage.	21/2
4.	a)	Write a note on inocul	um build up.	2½
	b)	Draw the flow sheet d	iagram of penicillin production.	2½
	c)	Explain MBKT metho	od for quality testing of milk.	2½
	d)	Discuss preservation of	of food by high and low temperature methods	. 2½
			OR	
	e)	Draw a well labelled d	liagram of fermenter.	2½/2
	f)	Write about Raw mate	erial/fermentation media for Baker's yeast pro	duction. 2½
	g)	Describe methods of p	pasteurization.	2½/2
	h)	Discuss the microbiolo	ogy of Idli fermentation.	21/2

## 5. Attempt any ten.

a)	What is monoculture fermentation?	1
b)	What is Impeller and write its use.	1
c)	Name any two nitrogenous raw materials.	1
d)	Give example of top fermenting and bottom fermenting yeast.	1
e)	What are types of beer?	1
f)	Write the application of citric acid.	1
g)	What is acid curd cheese?	1
h)	Give the composition of Milk.	1
i)	What is the principle of Resazurin test?	1
j)	Give example of chemical food preservatives.	1
k)	What is food poisoning and food infection?	1
1)	What is Putrefaction and Rancidity?	1

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