

## KERALA AGRICULTURAL UNIVERSITY

## B.Tech.(Food Engg) 2016 Admission V Semester Final Examination-January 2019

Fdsc 3105

## Fermentation Technology (1+1)

Marks:50 Time:2 hours

I		Match the following (10x1=10)
	1	Louis Pasteur a Penicillin
	2	Robert Koch b Anthrax bacterium
	3	Edward Jenner c Fermentation
	4	Alexander Fleming d Small pox vaccine
	_	Fill the following blanks
	5	Microorganisms involved in fermentation of yoghurt areand
	6	Lyophilization is based on the principle of
	7	Rennet is the combination of and enzymes
	8	Ale is fermented by and lager is fermented by Microorganisms.
	9	Distilled alcoholic beverages are, and
	10	Products based on lactic acid fermentation areand
11		Write Short notes on ANY FIVE of the following (5x2=10)
	1	Fed batch culture
	2	Growth factors for industrial fermentation
	3	Role of baffles
	4	Antifoam agents
	5	Sauerkraut
	6	Nutrient recycling
	7	Lager
m		Answer ANY FIVE of the following (5x4=20)
	1	Impact of fermentation on nutritional value of foods.
	2	Differentiate batch culture from continuous culture
	3	Criteria for selection of industrially important microorganisms.
	4	Enrichment technique for isolation of industrially important microorganisms.
	5	Preparation procedure of beer with flow sheet
	6	Enlist and explain one method in detail about purification of fermented products
	7	Discuss any one product in detail by lactic acid fermentation
IV		Answer ANY ONE of the following (1x10=10)
	1	Fermentation and its benefits. Explain the procedure for preparation, recovery, ageing and bottling of wine.

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fermentation vessels in detail.

Draw and label the design of fermentor. Explain in detail various parts involved. Discuss