

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)Louis Pasteur 1 a Penicillin 2 Robert Koch b Anthrax bacterium 3 Edward Jenner c Fermentation Alexander Fleming d Small pox vaccine Fill the following blanks Microorganisms involved in fermentation of yoghurt are _____and ____ 5 Lyophilization is based on the principle of _______.

Rennet is the combination of ______ and _____ enzymes.

Ale is fermented by _____ and lager is fermented by _____ Microorganisms. 6 7 8 Distilled alcoholic beverages are ______ and _____ 9 Products based on lactic acid fermentation are _____and ____ 10 Write Short notes on ANY FIVE of the following II (5x2=10)Fed batch culture 1 Growth factors for industrial fermentation 2 3 Role of baffles 4 Antifoam agents 5 Sauerkraut 6 Nutrient recycling 7 Lager Answer ANY FIVE of the following Ш (5x4=20)Impact of fermentation on nutritional value of foods. 1 Differentiate batch culture from continuous culture 2 Criteria for selection of industrially important microorganisms. 3 Enrichment technique for isolation of industrially important microorganisms. 4 Preparation procedure of beer with flow sheet 5 Enlist and explain one method in detail about purification of fermented products 6 Discuss any one product in detail by lactic acid fermentation Answer ANY ONE of the following IV (1x10=10)Fermentation and its benefits. Explain the procedure for preparation, recovery, ageing and 1 bottling of wine. Draw and label the design of fermentor. Explain in detail various parts involved. Discuss 2.

fermentation vessels in detail.