

KERALA AGRICULTURAL UNIVERSITY

B.Tech.(Food Engg.) 2016 Admission III Semester Final Examination-January-2018

Fdqu.2105

Food Microbiology (1+1)

Marks: 50

Time: 2 hours I Fill in the blanks (10x1=10)Time temperature combination for HTST pasteurization is -----1 2 ----invades the lenticels of apple to initiate lenticels rot. -----bacteria are those which survive pasteurization. 3 Aflatoxin is produced by -----4 Bacterial soft rot is caused by -----5 State True or False Lactic acid production takes place in the natural production of pickles. 6 Botrytis cinerea causes blue mold rot in vegetables. 7 Propionic acid is used as food preservative. 8 Sauerkraut is the type of fermented milk product. 9 The expansion of SCP is Special Culture Protein. 10 Write Short notes on any FIVE of the following II (5x2=10)Write short note on nisin. 1 What is Radurization and Radicidation 2 3 What is Botulism. 4 Differentiate Z value and F value. Growth characteristics of Thermophiles 5 Write short note on Freeze drying 6 Intermediate Moisture Foods Answer any FIVE of the following. III (5x4=20)What is single cell protein and describe about the substrates and microorganisms used for its production? Write short note on spoilage of bread. 2 Write about classification of foods based on acidity. Describe about various indicators of Food Safety. Describe about principles of Food Preservation. 5 Difference between quick freezing and slow freezing of foods. 6 Types of spoilage in Thermophillic spore forming bacteria Write an essay on any ONE of the following (1x10=10)Write in detail about the factors affecting the growth of microorganisms in food. 1 Elaborate about the various food preservation methods and explain any two in detail. 2
