

The Open University of Sri Lanka
Faculty of Engineering Technology
Department of Agricultural & Plantation Engineering



Study Programme	: Bachelor of Industrial Studies Honours (Agriculture)
Name of the Examination	: Final Examination
Course Code and Title	: AGI5470 Food Microbiology
Academic Year	: 2020/2021
Date	: 17 th February 2022
Time	: 14:00-17:00hrs
Duration	: 3 hours

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SECTION 2: Answer any four (04) questions.

1. a) Briefly explain how prebiotics enhance the growth of probiotics? (05 Marks)
b) Discuss the beneficial effects of probiotics on animals and humans? (15 Marks)
c) Name five (05) innovative products that can be produce with probiotics. (05 Marks)
2. a) Illustrate the stages of biofilm formation? (10 Marks)
b) Briefly discuss identification and control measures that can be used in the food industry to control biofilm formation? (15 Marks)
3. If you are the manager of the food microbiology testing laboratory, explain how do you receive, plan to test the given sausage sample and assure its safety for the consumption? (25 Marks)
4. Discuss how intrinsic and extrinsic factors effect on microbial growth? (25 Marks)

5. Compare and contrast the following topics (12.5 Marks each)
- (a) Gram Positive vs Gram Negative bacteria
 - (b) Bacterial spores vs Vegetative cells
6. "One asymptomatic food handler can cause thousands of people fall in sick" Critically evaluate the given statement giving suitable examples. (25 Marks)