



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2008/2009
SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE FOODS, NUTRITION AND DIETETICS

HFN 203: FOOD MICROBIOLOGY I

DATE: TUESDAY 8TH SEPTEMBER, 2009

TIME: 8.00 A.M -10.00 A.M

INSTRUCTIONS: Answer ALL Questions

1. Discuss the following phenomenon in bacterial cells and explain their relevance in Food bacteriology:
 - i) Encapsulation [5 marks]
 - ii) Cell clustering / aggregation [5 marks]
 - iii) Sporulation [5 marks]
 - iv) Generation time [5 marks]
2.
 - i) Discuss the uses of Yeasts and Moulds in the traditional and industrial Food processing. [15marks]
 - ii) Define the word “Biotechnology”? Highlighting some of the current applications in food Biotechnology give examples of Micro-organisms used. [10 marks]
3.
 - i) Highlight the main classification criteria for Viruses? How do Viruses differ from the other Micro-organisms in the way they exist if food, pathogenicity and laboratory detection. [10 marks]
 - ii) Discuss the replication process of viruses. [10 marks]
 - iii) Differentiate between Viruses, Prions and Virions. [5 marks]