

**UNIVERSITY OF KWAZULU-NATAL
SCHOOL OF LIFE SCIENCES (PMB)
EXAMINATIONS : JUNE 2014**

SUBJECT, COURSE & CODE :	MICR 213 BACTERIOLOGY	TOTAL MARKS: 120
DURATION :	3 HOURS	
INTERNAL EXAMINERS:	Mr. C.H.L. Hunter	
INTERNAL MODERATOR:	Dr. R. Govinden	

CANDIDATES ARE REQUESTED, IN THEIR OWN INTERESTS, TO WRITE LEGIBLY

This exam paper comprises two sections, A and B. Section A (Multiple choice) is provided as a separate MCQ question paper. Mark your answers to these questions on the MCQ answer sheet provided. For Section B, write your answers in the green answer book provided. The MCQ paper and answer sheet must be submitted with your written answer book(s). This section (SECTION B) consists of FOUR (4) pages, please ensure you have them all.

SECTION B – Write your answers in the green answer book provided

QUESTION 1 (10 Marks)

Give definitions or explanations for the following terms:

- a) Bacteriophage
- b) Chemotaxis
- c) Denitrification
- d) Growth factor
- e) Halotolerant microorganism
- f) Episome
- g) Osmophile
- h) Siderophore
- i) S-layer
- j) VBNC

(10 x 1 Mark)

QUESTION 2 (10 Marks)

- a) You determine that a custard cream pie has 3×10^8 *Staphylococcus aureus* cells in it. You estimate that the cream was probably contaminated with 500 *S. aureus* cells by the food preparer. He also forgot to refrigerate it and kept it at room temperature.

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D Keegan



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