



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

INSTITUTIONAL BASED PROGRAMME - DECEMBER SESSION

EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION

SBT 413: ENVIRONMENTAL MICROBIOLOGY

DATE: Thursday 28th April, 2011

TIME: 8.00 a.m. – 10.00 a.m.

INSTRUCTIONS

Answer ALL questions in Section A and any ONE question in Section B. Answers to questions in Section A should be concise, and should be written in the spaces provided in the question papers.

SECTION A

Answer ALL questions in the spaces provided (5 marks each)

1. Define the following terms:-
 - a) Habitat
 - b) Ecological niche
 - c) Biological oxygen demand
 - d) Biokinetic zone
 - e) Sewage

3. Outline the general characteristics of a good microbial indicator of water pollution.

- Page 3 of 5

- Page 4 of 5

8. Giving specific examples, outline the role of microorganisms in the sulphur cycle.

SECTION B

Answer any ONE question in this Section (30 marks)

1. Discuss the role of microorganisms in the nitrogen cycle.
2. Write an essay on viral pathogens found in water.
3. Describe the biosynthetic raw materials required by microorganisms.

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