



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2008/2009
SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE (ENVIRONMENTAL HEALTH)

HEH 104: BASIC ENVIRONMENTAL MICROBIOLOGY

DATE: MONDAY 30TH MARCH 2009 TIME: 8.00 A.M. – 10.00 A.M.

INSTRUCTIONS:

- **Answer all Questions.**

SECTION A

- Answer ALL the questions in this section

1. List the four divisions of fungi. (4 marks)
2. Outline the functions of metachromatic granules of bacteria cell. (2 marks)
3. Describe the cell wall of gram positive bacteria. (4 marks)
4. List four ways in which viruses can be transmitted from one organism to another. (4 marks)
5. Outline the advantages and disadvantages of complex media. (2 marks)
6. Outline two beneficial contribution of the lactic acid bacteria. (2 marks)

7. Explain the cause of rotten eggs smell present in anaerobic environment. (2 marks)

SECTION B

- This section consist of one compulsory questions.

8. a) Discuss The importance of Thiobacillus species in relationship to leaching. (5 marks)
- b) Discuss economic importance of fungi. (15 marks)

SECTION C

- This section consists of Three Questions
- Answer only TWO Questions.

9. Discuss in details sterilization by chemical methods. (15 marks)
10. Discuss common ingredients used in culture media. (15 marks)
11. Discuss in details bacterial cells appendages. (15 marks)

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