



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2009/2010
FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE (MEDICAL LABORATORY)
SPECIAL/ SUPPLEMENTARY EXAMINATIONS

HML 110: MEDICAL BACTERIOLOGY

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DATE: MONDAY 23RD NOVEMBER 2009

TIME: 8.00 A.M. – 10.00 A.M.

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INSTRUCTIONS

SECTION A

Answer ALL Questions. (5 marks each)

1. Identify the major contributions of Robert Koch to the field of bacteriology.
2. With the aid of a diagram show the different flagellar arrangements found in bacteria.
3. a) Define the term taxonomy. (1 mark)
b) Differentiate between;
i) Enriched and enrichment media (2 marks)
ii) Bacteriostat and Bacteriocide (2 marks)

SECTION B

Answer ONE Question (20 marks)

4. a) Draw the bacteria growth curve and describe each of the growth phases. (15 marks)
b) Write short notes on fermentation in bacteria (5 marks)
5. a) Outline the gram staining procedure. (5 marks)
b) Name five classes of antibodies that are medically important in the treatment of infectious disease caused by bacteria. For each of these classes give an example, and the mode of action. (15 marks)

