



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE
AND TECHNOLOGY**

UNIVERSITY EXAMINATIONS 2012/2013

**2ND YEAR 2ND SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN COMMUNITY
HEALTH AND DEVELOPMENT & BACHELOR OF SCIENCE
IN PUBLIC HEALTH**

(KISUMU LEARNING CENTRE)

COURSE CODE: HCD3226

COURSE TITLE: MEDICAL BACTERIOLOGY

DATE: 20/4/2013 TIME: 11.00-13.00PM

DURATION: 2 HOURS

INSTRUCTIONS

1. This paper contains TWO sections.
2. Answer ALL questions in section A (Compulsory) and ANY other Two questions in section B.
3. Write all answers in the booklet provided.

Section A: Answer ALL Questions (Total 30 marks)

1. Briefly describe bacterial flagellation, citing examples in each category (3 mks)
2. Differentiate endotoxins from exotoxins (3 mks)
3. Name any six enteric bacteria likely to cause disease in most communities in Kenya (3 mks)
4. Briefly describe *Peptostreptococcus magnus* (3 mks)
5. Describe the pathogenesis of rheumatic fever in humans (3 mks)
6. Briefly explain the community health relevance of *S. pyogenes* (3 mks)
7. Discuss briefly with examples the role of *normal bacterial flora* (3 mks)
8. Name any three major groups of antibacterial agents in common use (3 mks)
9. Explain any three virulence factors associated with *Str. pneumoniae* (3 mks)
10. Name any three bacterial agents of non-streptococcal pneumonia in humans (3 mks)

Section B: Answer any TWO Questions (20 marks each)

1. Discuss the role of exotoxins/enzymes in bacterial virulence using any four examples (20 mks)
2. Tuberculosis is a major community health problem. Discuss (20 mks)
3. Normal bacterial flora plays a key role in human health. Using one pathologic example, explain how a breach of this mechanism may cause diseases. (20 mks)
4. Describe with examples the morphological classification of bacteria (20 mks)