

**BONDO UNIVERSITY COLLEGE
SCHOOL OF HEALTH SCIENCES
BSC. COMMUNITY HEALTH & DEVELOPMENT/BSC. PUBLIC HEALTH
HCD3226: MEDICAL BACTERIOLOGY
YEAR 2 SEMESTER 2**

Instructions:

This paper has 2 sections; Section A has 10 short answer questions while Section B has 4 essay questions. Illustrate your answers with diagrams where appropriate.

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. Using any three examples, describe the role of exotoxins/enzymes in bacterial virulence (20 mks)
2. Tuberculosis is a major community health problem. Discuss (20 mks)
3. Discuss the etiology of botulism (20 mks)
4. Describe with examples the morphological classification of bacteria (20 mks)