



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF MASTER
2ND YEAR 2ND SEMESTER 2016/2017 ACADEMIC YEAR
MAIN CAMPUS

COURSE CODE: HCD 3226

COURSE TITLE: MEDICAL BACTERIOLOGY

EXAM VENUE: STREAM: BSc Community Health & Development/BSc Public Health

DATE: EXAM SESSION:

TIME: 2.00 HOURS

Instructions:

- 1. Answer all questions in section A and any two from section B (Question One is Compulsory)**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

Section A: Answer ALL Questions (Total 30 marks)

1. Briefly describe any three distinguishing characteristics between prokaryotes and eukaryotes (6 mks)
2. Define a communicable disease giving an example (4 mks)
3. Staphylococcus Aureus produces several enzymes and toxins enabling it to cause disease. Name any six, describing their functions in disease to human (6 mks)
4. Describe two complications of streptococcal infections (4 mks)
5. Discuss any three laboratory diagnostic methods for Tuberculosis (6 mks)
6. Differentiate multi-drug and extensively drug Resistant tuberculosis (4 mks)

4. Section B: Answer ANY TWO Questions

1. Discuss
 - a. Five mechanisms employed by bacterial pathogens to cause diseases giving examples (10mks)
 - b. Five transmittance routes of bacterial diseases giving examples (10mks)
2. Discuss the following;
 - a. Ten prevention and control measures for Staphylococcal infections as an issue of public health concern. (10mks)
 - b. Ten prevention and control measures against spread of mycobacterial infections (10mks)
3. Attempt the following:
 - a. Discuss the pathogenicity of *Neisseria Gonorrhoea* in detail. (10 mks)
 - b. Discuss temperature as a bacterial growth requirement giving examples and outlining its importance in public health. (10 mks)
4. Attempt the classification of streptococci (20 mks)