



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

SCHOOL OF HEALTH SCIENCES

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN COMMUNITY HEALTH AND DEVELOPMENT &
BACHELOR OF SCIENCE IN PUBLIC HEALTH**

2ND YEAR 2ND SEMESTER 2018/2019

KISII L. C.

COURSE CODE: HCD 3226

COURSE TITLE: MEDICAL BACTERIOLOGY

STREAM: BSc. Comm Hlth & Dvlnt and BSc. P.H

TIME: 2HRS

Instructions

- 1. Answer all questions in section A (compulsory) and any other 2 questions in section B**
- 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 (30 MARKS)

1. Define the terms normal flora and Human carriers (3mks)
2. Differentiate between eukaryotic and prokaryotic organisms (3mks)
3. State the steps required in investigating a bacterial infection (5mks)
4. Explain immunosuppression in relation to bacterial infection (3mks)
5. State 6 details filled in a laboratory request form for specimen analysis (3mks)
6. State four characteristics used in classifying bacteria's (4mks)
7. Describe four classifications of bacteria's based on oxygen consumption (4mks)
8. Describe four laboratory procedures involved in examining and diagnosing disease (5mks)

SECTION B (40 marks)

1.
 - A) Explain five modes of transmission of bacteria, while stating an example for each (10mks)
 - B) Discuss in details the Specific and non-specific immune responses against bacteria (10mks)
2.

Discuss five mechanism used by bacteria/microorganisms to evade the body's defense mechanism and end up causing disease (20mks)
3.
 - A) Discuss five components of the structure of a bacteria (10mks)
 - B) Explain five prevention and control mechanisms against bacterial infections (10mks)
4.
 - A) State at least 3 diseases and the respective bacteria causing the disease in each of the following organs (5mks@)
 - i) Respiratory tract
 - ii) Eyes
 - iii) Alimentary canal
 - iv) Skin and Wounds