

## JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF HEALTH SCIENCES UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE 2<sup>ND</sup> YEAR 2<sup>ND</sup> SEMESTER 2018/2019 ACADEMIC YEAR KISUMU LEARNING CENTRE

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
- 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. Define a communicable disease and give two examples describing their transmission (2mks)
- 2. State any three bacterial organelles describing their function
- Staphylococus Aureus produces several enzymes and toxins enabling it to cause disease.
  Name any six enzymes, describing their function. (6mks)
- 4. Describe two complications arising from inadequately treated streptococcal infections (4mks)
- 5. Describe three methods that can be employed to diagnose pulmonary tuberculosis. (6mks
- 6. Differentiate multi-drug (MDR) and extensively drug Resistant (XDR) tuberculosis (3mks
- 7. Describe any three antigenic structures of Neisseria gonorrhea. (6mks)

## Section B: Answer ANY TWO Questions (Total 20 marks)

- 1. Discuss
  - a. Transmittance routes of bacterial diseases giving an example in each case (10mks)
  - b. Mechanisms employed by bacterial pathogens to cause diseases giving examples

(10mks)

(3mks)

2. Discuss the following;

	a. Prevention and control strategies that could be employed to curb spread			
		Staphylocal infections as an issue of public concern.	(10mks)	
	b.	Prevention and control measures that can be put in place to prevent	event the spread of	
		Tuberculosis.	(10mks)	
3.	Attempt the following:			
	a.	Discuss the pathogenesis of Neisseria Gonorhea	(10mks)	
	b.	Discuss the Lancefield grouping of streptococci	(10mks)	
4.	Discuss			
	a.	The pathogenesis and clinical presentation of plaque in human	(15mks)	
	b.	Prevention and control of plaque	(5mks)	