JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE BACHELOR OF SCIENCE IN COMMUNITY/PUBLIC HEALTH AND DEVELOPMENT

2ND YEAR 2ND SEMESTER 2018 ACADEMIC YEAR

NAIROBI CITY LEARNING CENTRE

UNIT CODE: HCD 3226

UNIT COURSE: MEDICAL BACTERIOLOGY

STREAM: Bsc. CHD & PH

DATE: 06/12/2018

TIME: 2 HOURS

EXAM SESSION:

INSTRUCTIONS

- 1. Answer question ONE (Compulsory) and ANY other Two questions
- 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

SECTION A: Answer ALL Questions

- 1. Briefly define the following terms: (5 Marks)
 - a. Prototrophs-
 - b. Auxotrophs-
 - c. Autotrophs-
 - d. Heterotrophs-
 - e. Chemoautotrophs
- 2. What are the general characteristics of a bacterial cell? (6 marks)
- 3. List three bacterial growth requirements (3 marks)
- 4. Name and define the types of bacteria according to morphology (4 marks)
- 5. Explain the role of these bacterial structures in pathogenicity (6 marks)
 - a. Pili
 - b. Capsule
 - c. Flagella
- 6. Name and define the three categories of kingdom monera (6 marks)

SECTION B: Answer ANY TWO questions

- Describe the strategies adopted in the prevention and control of bacterial infections (20 marks)
- 2. Explain different approaches used in the identification of pathogenic bacteria (20 marks)
- 3. Discuss the virulence factors associated with bacterial pathogenicity (20 marks)
- 4. Identify FIVE agents used in the control of pathogenic bacterial infections and explain their modes of action and spectrum of activity (20 marks)