



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

**UNIVERSITY EXAMINATION FOR BACHELORS IN COMMUNITY HEALTH**  
**DEVELOPMENT & PUBLIC HEALTH**

**2<sup>nd</sup> YEAR 2<sup>nd</sup> SEMESTER 2018/2019 ACADEMIC YEAR**

**KISII CAMPUS- PART TIME**

**COURSE CODE: HCD3226**

**COURSE TITLE: MEDICAL BACTERIOLOGY**

**DATE:**

**EXAM VENUE:**

**TIME: 2hrs**

**INSTRUCTIONS:**

1. Answer SECTION A (Compulsory) and ANY other 2 questions 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 in this section (40 Marks)**

1. Elucidate the different shapes of bacteria with diagrams (5 marks)
2. Explain flagella and the bacterial flagella arrangements (5 marks)
3. Explain Salmonellosis and how it can be prevented (5 marks)
4. Bacteria infect the host cell, explain the process (5 marks)
5. Explain the diagnosis of gonorrhoea and syphilis (5 marks)

6. Explain capsule and its functions in a bacteria cell (5 marks)
7. Explain the phases observed during bacterial growth with a well labeled diagram (5 marks)
8. Explain the agents for control of pathogenic bacterial infections (5 marks)

**SECTION B; Answer any two Questions (30 Marks)**

- 9 a) Discuss the methods of bacterial identification (8 marks)
- b) Explain chlamydia, symptoms prevention and its control (7 marks)
- 10 a) Give an account for the mode of action and spectrum activity of pathogenic bacterial infection (8 marks)
- b) Explain the gram positive bacterial cell wall in detail (7 marks)
- 11a) Discuss the bacterial toxins and virulence factors (8 marks)
- b) Explain the chemotherapy of infectious agents (7 marks)