



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

**SCHOOL OF HEALTH SCIENCES**

**THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF  
BACHELOR OF SCIENCE IN COMMUNITY HEALTH**

**HCD 3311: COMMUNICABLE AND NON-COMMUNICABLE DISEASES**

**2 HOURS**

**KISUMU CAMPUS**

**SECTION A (30 MARKS). Answer ALL QUESTIONS from this section.**

**Q1.** Compare and contrast four Zoonotic protozoan pathogens with reference to their reservoir animals and /or vectors, diseases caused by them, and major control strategy **(6 Marks)**

**Q2.** Giving examples of a non -communicable disease, list and explain four modifiable risk factors for that disease. **(6 Marks)**

**Q3.** What is epidemiology? Briefly explain the major components of epidemiology **(3 Marks)**.

**Q4.** List and briefly explain four virulence factors for a named bacterium **(4 Marks)**

**Q5.** Giving relevant one example of a communicable disease, distinguish between **transmission, infection and disease (3 Marks)**.

**Q6.** List four World Health Organization prioritized non-communicable diseases and briefly explain how to control each disease. **(2 Marks)**.

**Q7.** Briefly describe epidemiological triad **(3 Marks)**

**Q8.** What are arboviral infections? List four (4) examples each, with non-human hosts involved **(3 Marks)**.

**SECTION B (40 MARKS).**

**Answer ANY TWO Questions from this section**

**Q1.** Major non communicable diseases epidemics are due to unhealthy lifestyles, which often arise during periods of economic transition. True or False? Support your answer by discussing, giving two examples each, in both developed and middle income countries. **(20 Marks)**.

**Q2.** Mentioning one example of a communicable disease, discuss the major factors involved in the transmission of communicable diseases **(20 Marks)**

**Q3.** Describe five major Zoonotic infections (1 viral, 2 protozoan, 1 bacterial and 1 helminthic). Giving two examples, explain why Zoonotic infections are difficult to control **(20 Marks)**

**Q4.** Giving four examples of modifiable risk factors, describe how they lead to increase in four major non communicable diseases globally. **(20 Marks).**