

CHUKA

UNIVERSITY



UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT. HUMAN RESOURCE MANAGEMENT, EARLY CHILDHOOD DEVELOPMENT, INTERNATIONAL RELATIONS, PROCUREMENT AND LOGISTICS MANAGEMENT, PROJECT PLANNING CRIMINOLOGY AND SECURITY STUDIES, COMMUNITY DEVELOPMENT, JOURNALISM AND MASS COMMUNICATION

ZOOL 143: BIOLOGY OF HIV/AIDS AND SOCIETY

STREAMS: BSc. (ODEL)

TIME: 2 HOURS

DAY/DATE: FRIDAY 08/08/2025

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- **Answer all the questions in section A and any other two questions in section B**

SECTION A (30 MARKS)

1a) Distinguish between the following terms

- i) Disease prevalence and disease incidence (2 marks)
- ii) Innate immunity and Acquired immunity (2 marks)

b) State the functions of each of the following immune cells in the body

- i) Macrophages (1 mark)
- ii) T cytotoxic cells (1 mark)

2 a) Outline two roles of faith based organizations in the fight against HIV/AIDS (2 marks)

b) Explain two ways in which STDS increase the susceptibility to HIV infection (2 marks)

c) Outline two principles of positive living for persons with HIV/AIDS (2 marks)

- 3 a) Explain two classes of antiretroviral drugs (ART) used to manage HIV/AIDS patients (2 marks)
- b) Explain briefly how poverty has contributed to making Africa the most affected continent with HIV/AIDS (2 marks)
- c) Describe briefly any two theories of origin of HIV (2 marks)
- 4a) Explain the impact of HIV/AIDS on the economic growth of Kenya (2 marks)
- b) “Male circumcision lowers HIV infection” Explain this statement (2 marks)
- c) Explain two biological factors that have contributed to higher prevalence of HIV/AIDS in women than men (2 marks)
- 5a) Explain how the following factors lead to faster progression of HIV infection to AIDS
- i) Superinfection (1 mark)
- ii) Health and malnutrition (1 mark)
- b) Outline two types of STDS depending on the signs and symptoms presented (2 marks)
- c) Explain briefly the working principle of rapid test for HIV (2 marks)

SECTION B: 40 MARKS

- 6a) Discuss the various modes of HIV transmission and their preventive strategies (10 marks)
- b) Describe five stages of HIV counselling (10 marks)
- 7a) illustrate the structure of HIV (4 marks)
- b) Describe the stages HIV lifecycle (16 marks)
- 8) a) Discuss the five categories of social of stigma in people living with HIV/AIDS (10 marks)
- b) Explain ten roles of Kenyan Government in the fight against HIV/AIDS (10 marks)
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