

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

CHUKA AND IGEMBE CAMPUSES

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF ECONOMIC STATISTICS, ECONOMIC SOCIOLOGY, ECDE, ENTREPRENEURSHIP, LIBRARY SCIENCE, ECONOMIC MATHEMATICS, BIOMEDICAL, AGRICULTURE, NATURAL RESOURCES, MATHEMATICS, CHEMISTRY, FOOD SCIENCE, HOTEL MANAGEMENT, ELECTRICAL ENGINEERING, BACHELOR OF ARTS AND BACHELOR OF COMMERCE

ZOOL 143: BIOLOGY OF HIV/AIDS AND SOCIETY

STREAMS: DEGREE

TIME: 2 HOURS

DAY/DATE: TUESDAY 09/04/2019

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

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

SECTION A 30 MARKS

1. Distinguish between the following terms
 - (a) Adherence and super infection (2 marks)
 - (b) Phagocytes and lymphocytes (2 marks)
 - (c) Window period and incubation period (2 marks)
2. (a) Explain how the following factors lead to faster progression of HIV to AIDS
 - (i) Type of HIV (1 mark)
 - (ii) Health and malnutrition (1 mark)
- (b) (i) Explain two theories of origin of HIV (2 marks)

- (ii) State two models of HIV (1 mark)
- (iii) Outline the function of reverse transcriptase enzyme of HIV. (1 mark)
3. (a) Name and explain two factors that have contributed to high prevalence of HIV/AIDs in Africa. (2 marks)
- (b) Give two reasons why HIV is able to escape destruction by the immune system. (2 marks)
- (c) Explain two biological factors that contribute to high HIV infection rate in women. (2 marks)
4. (a) State three roles of non-governmental organizations in the fight against HIV (3 marks)
- (b) Illustrate the structure of HIV (3 marks)
5. (a) State the causative agents for
- (i) Hepatitis B (1 mark)
- (ii) Syphilis (1 mark)
- (iii) Candidiasis (1 mark)
- (b) Explain two HIV transmission facts and myths. (2 marks)
- (c) State one advantage of disclosure counselling. (1 mark)

SECTION B (40 MARKS)

6. HIV/AIDs related stigma has been a major challenge in the fight against HIV/AIDs. Discuss the types of stigmas and the factors contributing to them. (20 marks)
7. (a) Describe the objectives and components of home based care. (12 marks)
- (b) Discuss the principles of positive living. (8 marks)
8. Discuss HIV under the following subheadings
- (a) Modes of transmission (5 marks)
- (b) Signs and symptoms (5 marks)
- (c) Diagnosis (5 marks)
- (d) Prevention and control (5 marks)

