



**MERU UNIVERSITY OF SCIENCE & TECHNOLOGY**

*Foundation of innovations*

**MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY**

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**University Examination 2016/2017**

FIRST YEAR, SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN FOOD SCIENCE AND TECHNOLOGY AND BACHELOR OF SCIENCE IN FOOD SCIENCE AND MANAGEMENT AND BACHELOR OF SCIENCE IN FOOD SCIENCE AND NUTRITION. FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF PURCHASING AND SUPPLIES MANAGEMENT

AND

FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION, BACHELOR OF COOPERATIVE MANAGEMENT

**UCU 3103: HIV/AIDS**

**DATE: JUNE 2017**

**TIME: 2 HOURS**

**INSTRUCTIONS:** Answer question **one** and any other **two** questions.

**QUESTION ONE (30 MARKS)**

- a) Differentiate between HIV1 and HIV 2 (4 marks)
- b) Outline four types of opportunistic diseases. (4 marks)
- c) Describe the difference between being HIV positive and having AIDS (4 marks)
- d) State three enzymes which human immunodeficiency virus uses during replication (3 marks)

- e) Derive common effective interventions by the government of Kenya for prevention of sexually transmitted disease among the youths. (6 marks)
- f) The term Human Immunodeficiency virus means a virus that renders the human immune system weak. Discuss briefly. (5 marks)
- g) Briefly, outline effects of parental drug administration by young adults in Kenya (3 marks)

**QUESTION TWO (20 MARKS)**

- a) AIDS continues to be a major global health priority. Discuss the statement. (10 marks)
- b) Giving possible remedies, discuss major contributions to new HIV infections across adult population in Kenya. (10 marks)

**QUESTION THREE (20 MARKS)**

Joko, a very beautiful first year student, had unprotected sexual intercourse with Kitumi, a fourth year at Ngorongo University. Questioned on why, she argued that they had both visited a voluntary counselling and testing centre and were both HIV negative. Little did Joko know that Kitumi had unprotected sex with Saki a week earlier. Saki was a third year student, HIV positive and had secretly infected several male students at Ngorongo University.

- a) In the above context, discuss Joko and Kitumi's HIV status (6 marks)
- b) What would be your advice to Joko and Kitumi (6 marks)
- c) Discuss effects of stigma and discrimination and risk of HIV transmission among University students. (8 marks)

**QUESTION FOUR (20 MARKS)**

Ms. Karuta is a 21 year old woman. On a Friday afternoon, she was found lying on the carpet of her apartment, full of sweat and had difficulty in breathing. A neighbor reported that he had found her apartment door open. Physical examination revealed an emaciated, dehydrated, and unresponsive woman, with sores in her mouth and fungal infection on her groins. Laboratory test was positive for HIV and DC<sub>4</sub> + cell count was 350 cells/ml of blood.

- a) What would you say is the disease progression status for Ms. Karuta and why? (5 marks)
- b) Give Ms. Karuta special advice on nutritional requirements and benefits of taking antiretroviral therapy. (10 marks)
- c) Describe effects of Ms. Karuta's health status on her family. (5 marks)