



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

**DEPARTMENT OF COMPUTER SCIENCE & INFORMATION
TECHNOLOGY**

**CERTIFICATE IN INFORMATION COMMUNICATION TECHNOLOGY &
MAINTENANCE (CICTM/M12)**

ACM 1100: HIV/AIDS

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2012

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions in **TWO** sections A & B

Answer question **ONE (COMPULSORY)** and any other **TWO** questions
Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

SECTION A (COMPULSORY)

Question One (30 Marks)

- a) State the stages of HIV replication cycle. **(4 marks)**
- b) Mention the **THREE** major modes of HIV transmission. **(3 marks)**
- c) Briefly explain ways in which alcohol abuse contributes to transmission of HIV **(3 marks)**
- d) State the benefits of VCT in Kenya. **(4 marks)**
- e) Define: **(10 marks)**
 - i) Provirus
 - ii) Sexuality
 - iii) CD4
 - iv) Opportunistic Infection
 - v) Viral load
- f) Discuss the biological effects of substance abuse in PLKIHA (People living with HIV/AIDS)? **(3 marks)**
- g) Mention the cells in the immune system and state their functions. **(3 marks)**

SECTION B (Answer Any Two Questions)

Question Two (15 marks)

- a) Discuss the impact of HIV on:
 - i) Agriculture
 - ii) Health
 - iii) Economy
 - iv) Population**(10 marks)**
- b) What are the factors that have contributed to decreased number of HIV infections in Kenya? **(5 marks)**

Question Three (15 marks)

- a) What is Epidemiology? Describe the global epidemic of HIV/AIDS **(10 marks)**
- b) How is HIV able to evade the immune system? **(5 marks)**

Question Four (15 marks)

- a) Discuss progression of HIV infection to AIDs in adults **(10 marks)**
- b) Explain the African traditional beliefs on HIV/AIDs **(5 marks)**

Question Five (15 marks)

- a) Discuss any **THREE** theories that have tried to explain the origin of HIV/AIDs **(10 marks)**

b) Mention the classes of ARV drugs

(5 marks)