



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

**DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
(DICT 2K 11M/DICT 10A/DICT 11M)**

ACM 2100: HIV/AIDS AWARENESS

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: OCTOBER 2012

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions
Answer question **ONE** 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 similarities and difference between HIV1 and HIV2. (4 marks)
- b) Describe the first stage of HIV replication cycle. (3 marks)
- c) Mention the **THREE** major modes of HIV transmission. (3 marks)
- d) Nutrition and HIV/AIDS affect each other. Expound. (4 marks)
- e) How is HIV able to hide from the immune system? (4 marks)
- f) Describe the structure of the HIV virion (5 marks)
- g) Explain the **TWO** phenomena that have indicated resistance to HIV infection. (4 marks)
- h) How has substance abuse contribute to spread of HIV? (3 marks)

SECTION B (Answer Any Two Questions)

Question Two (15 marks)

- a) Discuss the impact of HIV on: (10 marks)
 - i) Agriculture from a gender perspective
 - ii) Health
 - iii) Economy
- b) What are the strategies the community is using to prevent the spread of HIV/AIDS? (5 marks)

Question Three (15 marks)

- a) Discuss the progression of HIV infection of AIDS to adults. (10 marks)
- b) Discuss the African traditional beliefs on HIV/AIDS. (5 marks)

Question Four (15 marks)

- a) Discuss any **THREE** theories that have tried to explain the origin of HIV. (9 marks)
- b) What is Epidemiology? Discuss the global epidemic of HIV/AIDS. (6 marks)

Question Five (15 marks)

- a) Discuss the modes of treatment and management of HIV/AIDS in Kenya. (5 marks)
- b) Mention the classes of ARV drugs. (6 marks)
- c) Discuss measures taken to prevent HIV transmission to the child in pregnant women living with HIV. (4 marks)