



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CERTIFICATE IN BUILDING & CONSTRUCTION

SZL 1110: 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 consists 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 **THREE** printed pages
SECTION A (COMPULSORY – 30 MARKS)

- a) Write the following in full. **(5 marks)**
- i) EIA
 - ii) ELISA
 - iii) PCR
 - iv) ARV
 - v) CD4
- b) Differentiate between HIV I and HIV II. **(2 marks)**
- c) A person in WHO clinical state II will present with _____ **(4 marks)**
- d) State the **FIVE** goals of ART. **(5 marks)**
- e) Draw a well labeled diagram of the HIV virus. **(7 marks)**
- f) Explain **TWO** ways by which HIV can be diagnosed. **(2 marks)**
- g) Explain the principles of HIV Testing and Counseling (HTC) **(3 marks)**
- h) State **TWO** HTC approaches. **(2 marks)**

SECTION B (Attempt any TWO questions)

Question One (15 marks)

- a) Define immune system. **(2 marks)**
- b) State mechanisms of innate immunity. **(8 marks)**
- c) With examples, outline the types of adaptive immunity. **(5 marks)**

Question Two (15 marks)

- a) State the importance of HTC in the management of HIV/AIDs. **(6 marks)**
- b) With examples, explain HTC approaches used in Kenya. **(9 marks)**

Question Three (15 marks)

- a) Define HAART. **(2 marks)**
- b) State **THREE** goals of HAART. **(3 marks)**
- c) List **FIVE** classes of ARV's are giving examples of each class. **(10 marks)**

Question Four (15 marks)

- a) Define Drug Abuse. **(2 marks)**
- b) Name the drugs that are abused in the community. **(5 marks)**
- c) Explain the relationship between drug and alcohol abuse and HIV/AIDs transmission and management and what can be done to break the transmission cycle. **(8 marks)**