



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2014/2015 ACADEMIC YEAR**

FIRST YEAR FIRST SEMESTER EXAMINATIONS

**FOR THE DIPLOMA
IN
CIVIL AND STRUCTURAL ENGINEERING**

COURSE CODE: DCE 063

COURSE TITLE: HIV AND AIDS

DATE: 17TH DECEMBER 2014

TIME: 11.00 – 1.00PM

INSTRUCTIONS:

1. Answer Question **ONE** and any other **THREE** questions
2. Examination duration is **2 Hours**

MMUST observes **ZERO** tolerance to examination cheating

This Paper Consists of 3 Printed Pages. Please Turn Over.

QUESTION ONE

- (a) Define the following terms in relation to HIV and AIDS: (5 marks)
- (i) Pandemic
 - (ii) Epidemic
 - (iii) Endemic
 - (iv) Incidence
 - (v) Prevalence
- (b) With the help of a clearly labeled diagram, illustrate the structure of HIV. (10 marks)
- (c) Briefly discuss how HIV type one (HIV-1) differs from HIV type two (HIV-2). (5 marks)
- (d) Outline any FIVE cultural practices that render people vulnerable to HIV infections.(5 marks)

QUESTION TWO

- (a) Engineering facilities and equipment for the infected and the affected have been categorized into a number of areas: Housing, Medical and Income generating. Give a brief description of the facilities and equipment found in each area. (10 marks)
- (b) Identify any FIVE overall impacts of HIV and AIDS on the economy. (5 marks)

QUESTION THREE

- (a) “HIV positive sero-status is no longer a death sentence”. Discuss mitigation strategies that can be put in place before and after infection. (10 marks)
- (b) State and explain briefly the various groups which are vulnerable to HIV and AIDS. (5 marks)

QUESTION FOUR

- (a) Outline the various roles played by AIDS Control Units (ACU) in the implementation of HIV and AIDS of the work place policy. (10 marks)
- (b) Why is it important for every organization that employs people to develop a work place policy on HIV and AIDS? (5 marks)

QUESTION FIVE

- (a) Critically examine the three forms of HIV and AIDS counseling. (10 marks)
- (b) State FIVE reasons why HIV and AIDS counseling is significant. (5 marks)

QUESTION SIX

(a) Identify any FIVE approaches in which the media can be instrumental in effectively communicating HIV and AIDS issues to effect behavior change to the public. (5 marks)

(b) Table 1 below shows data HIV and AIDS infection cases collected from year 2000 to 2004.

YEAR	2000	2001	2002	2003	2004
MALE	30	45	50	48	40
FEMALE	35	55	60	54	46

- (i) Using the data provided above, draw a multiple bar chart presenting the male and female (5 marks)
- (ii) From the multiple bar chart drawn in (i) above, make a brief analysis of the data. (2 marks)
- (iii) From the brief analysis made in (ii) above, formulate appropriate conclusions. (3 marks)