



MURANGA UNIVERSITY COLLEGE

(A constituent College of Jomo Kenyatta University of Agriculture & Technology)

MAIN CAMPUS

SUPPLEMENTARY/SPECIAL UNIVERSITY EXAMINATIONS

2015/2016 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE

OF

**BACHELOR OF COMMERCE, BACHELOR OF BUSINESS INFORMATION
TECHNOLOGY, BACHELOR OF PROCUREMENT AND SUPPLIES
MANAGEMENT, BACHELOR OF ENTREPRENEURSHIP AND SMALL &
MEDIUM ENTERPRISES**

COURSE CODE: HBC2106, HBT2101, HPS2106 AND UCU2104

**COURSE TITLE: FUNDAMENTALS OF COMPUTER SYSTEMS AND
COMPUTER APPLICATIONS**

DATE: DECEMBER 2015

TIME: Two Hours

INSTRUCTIONS TO CANDIDATES

Answer Question ONE (1) and **any** other TWO Questions

MRUC observes ZERO tolerance to examination irregularities
This Paper Consists of 2 Printed Pages. Please Turn Over.



Question One

- ai) Explain the purpose of an internet browser program in a computer. 2 marks
- ii) Justify why someone would install several internet browsers in the same computer. 2 marks
- iii) Differentiate between **reply** and **forward** key words found on the template of an email. 2 marks
- b) Differentiate batch and on-line processing in a computer based application. 6 marks
- c) Perform the following conversion of numbers as stated.
- i) From Decimal 113_{10} to Binary number equivalent. 2 marks
- ii) From Binary 101100.101_2 to Decimal number equivalent. 4 marks
- d) Compare the modern database approach to traditional file based systems and suggest the one which is superior. 6 marks
- e) Compare the modern database approach to traditional file based systems and suggest the one which is superior. 6 marks

Question two

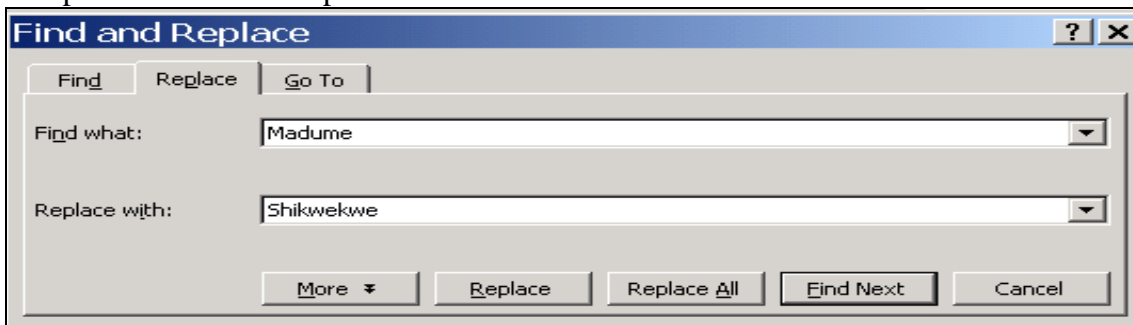
- a) Distinguish between analog and digital computers. 4 marks
- b) (i) Explain the term document formatting. 2 marks
(ii) Give any **four** document formatting features. 4 marks
- c) Differentiate between the following options which a user is required to choose from while setting a connection to a network. 6 marks
- i. Set up a new connection or network
 - ii. Connect to a network
 - iii. Choose homegroup and sharing options
- di) Define the term *Internet Firewall*. 2 marks
- ii) Explain its importance. 2 marks

Question three

- a) Demonstrate the steps you would follow while changing the background appearance of your computer's desktop. 8 marks
- b) Explain;
- i) 3 disadvantages of using internet in today's global economy. 3 marks
- ii) 2 advantages of using internet in today's global economy. 2 marks
- c) Sketch 2 network topologies used while designing an organization's computer network. 4 marks
- d) Define the following computer input devices: 3 marks
- (i) Scanner
 - (ii) Bar code reader
 - (iii) Microphone

Question four

- a) Outline the steps you would follow to get the dialog box below and the other steps one would follow to replace text in a word processor. 6 marks



- b) Citing suitable examples, explain in which way the following services can enhance learning in the university

- | | |
|--------------------------------------|---------|
| i. Internet | 2 marks |
| ii. E-mail | 2 marks |
| iii. Electronic Funds Transfer (EFT) | 2 marks |

- c) Distinguish the following terms.

- | | |
|-------------------------------------|---------|
| i. Data and information | 2 marks |
| ii. Application and system software | 2 marks |

- d) Hannah is an executive secretary at a busy organization, explain reasons you would give her to support the use of electronic word processing rather than the manual typewriter. 4 marks