



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations for 2014/2015 Academic Year

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

First Semester Examination for Certificate in Electrical and Electronics Engineering
First Semester Examination for Certificate in Building and Civil Engineering

SCE 100: INFORMATION COMMUNICATION TECHNOLOGY

Date: 31/3/2015

Time: 8:30 – 10:30 AM

Instructions

Answer **Three** questions

Question one (Compulsory)

QUESTION ONE

- a) **Define** the following terms as used in information technology.
 - i. Data
 - ii. Information
 - iii. processing (6 Marks)
- b) Draw and label the block diagram of digital computer system clearly indicating the data flow and flow of controls. (8 Marks)
- c) **Highlight three** application areas of computer. (3 Marks)
- d) **State two** functions of input devices and **two** functions of output devices. (4 Marks)
- e) **State three** forms into which the computer can input, process and output data. (3Marks)
- f) **Explain** the meaning of the word GIGO as used in computing. (2 Mark)
- g) **State two** types of secondary storage devices giving an example in each case (4 Marks)

Answer any **TWO** questions in this section

QUESTION TWO

- a) **Define** the term peripheral device as used in computer hardware (2 Mark)
- b) **Describe** any three Network Topologies (6 Marks)
- c) **Outline** any **six** characteristics of the first generation computers (6 Marks)
- d) **Describe** the following types of computers
 - i. Digital computer
 - ii. Analog
 - iii. Hybrid computers(6 Marks)

QUESTION THREE

- a) **Describe two** types of computer software (4Marks)
- b) Explain the following terms in connection with mouse usage
 - a. Clicking
 - b. Double clicking
 - c. Dragging
 - d. Scrolling(8 Marks)
- c) **Discuss** the **three** major components of a computer system (6 Marks)
- d) Define the term computer as used in ICT (2 Marks)

QUESTION FOUR

- a) **Highlight five** application areas of computer. (5 Marks)
- b) **State five** reason which makes microcomputers suitable for personal computing work (5Marks)
- c) **Distinguish** between impact and non-impact printers, giving an example in each case(5 Marks)
- d) **Explain five** disadvantages of computerization (5 Marks)

QUESTION FIVE

- a) **Explain** the three types of computers classified according to purpose (6 Marks)
- b) **Define** the term computer software as used in ICT (2 Marks)
- c) Computer main memory is divided into two; **explain** the two types of memory. (4 Marks)
- d) **State** four specifications to consider when acquiring a computer hardware (4 Marks)
- e) **Describe two** functions of an operating system (4 Marks)