



MACHAKOS UNIVERSITY

University Examinations for 2016/2017

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

FIRST YEAR FIRST SEMESTER EXAMINATION FOR DIPLOMA IN EDUCATION

INFORMATION COMMUNICATION TECHNOLOGIES

DATE: 5/6/2017

TIME: 11:00 – 1:00 PM

INSTRUCTIONS

Answer Questions ONE and Any Other Two Questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) **Define** the following terms as used in information technology.
 - i. Data
 - ii. Icon
 - iii. Computer (6 marks)
- b) **Highlight** four basic components of a Desktop PC (4 marks)
- c) **Describe** the functions of the following parts of a computer:
 - i. Control unit,
 - ii. Main Memory, and
 - iii. Arithmetic logic unit. (6 marks)
- d) **Describe three** functions of operating system (6 marks)
- e) **Draw and label** the block diagram of digital computer system clearly indicating the data flow and flow of controls (8 marks)

QUESTION TWO (20 MARKS)

- a) **Explain** the following terms in connection with mouse usage
 - i. Clicking
 - ii. Double clicking
 - iii. Dragging
 - iv. Scrolling (8 marks)
- b) Computers have evolved through a number of generations. **List** any **six** characteristics of the first generation computers (6 marks)
- c) **Describe** the following secondary storage devices.
 - i. Optical and
 - ii. Magnetic (4 marks)
- d) **Define** the term peripheral device (2 marks)

QUESTION THREE (20 MARKS)

- a) **Define** the term computer system (2 marks)
- b) **Discuss** the **three** major components of a computer system (6 marks)
- c) **Explain four** disadvantages of computerization (4 marks)
- d) Security in computing is essential, **identify** the procedure of switching off a computer safely. (8 marks)

QUESTION FOUR (20 MARKS)

- a) **Define** the term computer software as used in computing. (2 marks)
- b) **Distinguish** between impact and non-impact printers, giving an example in each case (6 marks)
- c) **Differentiate** the following terms in relation to computers:
 - i. Soft copy and Hard copy
 - ii. Save and Save As
 - iii. Moving and copying
 - iv. Cold boot and warm boot (8 marks)
- d) **State four** forms into which the computer can input, process and output data (4 marks)

QUESTION FIVE (20 MARKS)

- a) **Highlight five** desirable features of an operating system (5 marks)
- b) **Highlight five** areas of computer application (5 marks)
- c) **Identify** the parts labelled 1 to 10 in the following Microsoft word window. (10 marks)

