MURANG'A UNIVERSITY COLLEGE

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

UNIVERSITY EXAMINATIONS 2013/2014

YEAR ONE SEMESTER ONE EXAMINATION FOR THE CERTIFICATE AND DIPLOMA

IN SCHOOL ENGINEERING AND HOSPITALITY AND TOURLISM

DIT 1104: ICT (THEORY EXAM)

DATE: 27TH NOVEMBER2013   TIME: 2 HOURS

INSTRUCTIONS: *Answer ALL question*

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QUESTION 1

    a. Give **THREE** main functions of a computer input device.   (3 marks)

    b. Explain briefly the Microprocessor operation cycle.   (5 marks)

    c. Name and explain **3 main** parts/ components of the Processor.   (6 marks)

    d. Outline the **FIVE** main processes under which data undergoes to become

       information.   (5 marks)

    e. What was the most remarkable discovery during the second computer generation?
                                                                                 (1 mark)

QUESTION 2

    a. Explain **FOUR** areas where computers are used/applied in our society today

                                                                                 (8marks)

    b. Briefly explain the terms analogue and digital computers as used in
       computer systems   (2marks)

c. Clearly draw and label the main physical parts of a simple computer system
. Citing the function of each part   (8 marks)

d. Complete the abbreviation 'POST' in computer technology and explain briefly its
purpose.   (2 marks)

QUESTION 3

a. Explain **FOUR** classes of computers based on size and complexity   (8marks)
b. Give **THREE** factors to be considered when preparing a computer laboratory.
                                                                        (4 marks)
c. Distinguish between cold booting and warm booting   (4marks)
d. Name and explain the **two** main divisions of computer storage.   (4 marks)

QUESTION 4

a. Define the term computer virus and explain the four risks posed by virus in computers
                                                                        (6marks)
b. Define the following terms as used in ICT.
    i. Information.
    ii. Data.
    iii. Data processing.
    iv. Programs.   (8 marks)
c. Write down the procedure to be followed when switching on a computer.
                                                                        (2   marks)
d. State four factors one would consider when purchasing application software.
                                                                        (4 marks)

QUESTION 5

a. Technology is the basis of computer classification. Based on this, explain briefly the
difference between the first three computer generations.   (6 marks)

b. Briefly describe terms "Analogue" and "Digital data" as used in computer science.
                                                                        (2 marks)
c. Outline 3 basic characteristics of Secondary storage devices.   (3 marks)
d. Briefly discuss the two broad categories of software.   (4 marks)
e. Why do people prefer special–purpose applications (developed applications)

to general-purpose applications (bought off-the-shelf)?   (2 marks)

f. List any **THREE** general functions of an operating system.   (3 marks)