JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE CERTIFICATE IN COMMUNITY HEALTH AND DEVELOPMENT

1ST YEAR 2ND SEMESTER 2018/2019 ACADEMIC YEAR

KISII CAMPUS

COURSE CODE: SCS 1111

COURSE TITLE: INTRODUCTION TO BASIC COMPUTER APPLICATIONS

DATE: 13/08/10   **EXAM SESSION: 2.00 – 3.30PM**

TIME: 1 ½ HOURS

INSTRUCTIONS

1. **Answer Question 1 (Compulsory) and ANY other TWO questions**
2. **Candidates are advised not to write on the question paper**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room**

QUESTION ONE (30 MARKS).

(a) List **three** merits of direct file access method   **(3 marks)**

   i.   Give **four** factors that determine the downloading speed of a file from website **(4 marks)**

  ii.   Outline **five** methods of entering data into a computer system.   **(5 marks)**

(b) State **five** demerits of first generation computers   **(5 marks)**

   i.   Compare primary memory with secondary memory   **(4 marks)**

  ii.   Outline four services offered over internet   **(4 marks)**

 iii.   Describe three types of charts that can be created using a spreadsheet   **(5 marks)**

QUESTION TWO 20 MARKS

(a) Give and explain **four** situations when one would be required to update the BIOS configuration of a computer.   **(8 marks)**

   i.   Mention **four** data processing methods.   **(4 marks)**

  ii.   Highlight the importance of secondary storage in data management**.**   **(4 marks)**

(b) Highlight **four** functions which are performed by an operating system in managing a computer system's resources.   **(4 marks**

QUESTION THREE 20 MARKS

. (a) Using a simple illustration, explain the following components of a database   **(10 marks)**

   i.   Block
  ii.   Domain
 iii.   Tuples
 iv.   File
  v.   Record

(b) Describe the following hardware devices   **(2 marks)**

   i.   Plotter
  ii.   Memory stick

(c) Briefly explain the meaning of the following terms as used in the context of information sharing.

                                                              (8 marks)

   i.   Browsing
  ii.   File Transfer Protocol (FTP)
 iii.   Bandwidth
 iv.   User net newsgroups

QUESTION FOUR 20 MARKS

(a) Distinguish between the following terms **(8 marks)**

    i.   Single tasking and multitasking
    ii.   System security and data security

(b) Identify **two** examples and **one** function of each of the following computer software   **(12 marks)**

    i.   System management programs
    ii.   General purpose application programs
   iii.   System development programs
   iv.   Application specific programs

QUESTION FIVE 20 MARKS

(a) A sales person will be giving a multimedia presentation to a large group of people in an exhibition using a laptop computer.

    i.   Briefly, describe **two** typical features of a laptop computer   **(2 marks)**
    ii.   Highlight four extra devices that may be needed for the presentation and state the purpose of each.
                        (4 marks)

(b) Explain five hardware factors to consider when acquiring an operating system   **(5 marks)**

    i.   Describe **three** types of computers according to their structure, speed and architecture **(3 marks)**
    ii.   Highlight the criteria used to determine computer file organization   **(6 marks)**