JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION ARTS
1STYEAR 1ST SEMESTER2016/2017 ACADEMIC YEAR
KISII CAMPUS-FULL TIME

UNIT CODE: SCS 101

UNIT TITLE: INTRODUCTION TO COMPUTERS

EXAM VENUE:

DATE: APRIL 2017   **EXAM SESSION:**
TIME: 2 HOURS

Instructions:

1. **Answer Question ONE (COMPULSORY) and ANY other 2 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**

QUESTION ONE (30 marks)
a) Explain three applications of computers   [3 marks]
b) Define the following terms as used in computing
      i.   Databases   [2marks]
      ii.   Accuracy   [2marks]
      iii.   Computer networks   [2marks]
      iv.   Addressing mode   [2marks]
c) Explain the following keyboard shortcuts   [4 marks]
      i.   **Ctrl-X**
      ii.   **Ctrl-Z**
      iii.   **Ctrl-Y**
      iv.   **Ctrl-H**

d) Explain why modern computers contain both Dynamic RAM (DRAM) and Static RAM (SRAM   [2 marks]

e) Explain differences between the following

      i.   Work station and a notebook   [2mark]
      ii.   Application program and system program   [2marks]
      iii.   Bit and byte   [2mark]

f) Define a compiler and explain two disadvantages of using it   [3 marks]
g) Convert the following to binary   [4 marks]
    30010
    15610

h) Explain features of a computer operating systems

QUESTION TWO (20 marks)

a) Briefly explain the history of computing   [5marks]
b) Using a diagram explain the components of a database system   [5mark]
c) State and explain five applications of computers   [5marks]
d) Discuss five importance of computer networking   [5marks]

QUESTION THREE (20 marks)

a) Explain the steps of inserting headers and footers in word processing [4marks]

b) Explain the three types of databases   [6marks]

c) Discuss two advantages and two disadvantages of automatic memory
   management   [4mark]

d) Discuss three advantages and three disadvantages of databases   [6marks]

QUESTION FOUR (20marks)

a)   State and explain five services provided by operating systems   [5mark]
b) Define hyperlink and explain what it does and its importance   [5mark]

c) Explain the steps of mail merging in word processing   [6marks]

d) Discuss any four components of a computer   [6marks]

QUESTION FIVE (20marks)

a)   Define a web browser and discuss five features of a web browser   [6mark]
b) Briefly explain four characteristics of RISC as used in computer architecture
                                                                          [4marks]
c) Differentiate between top-down and bottom –up approaches   [4marks]
d) Define a computer programming language and explain the steps of developing a
   program   [6 marks]