JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

DEPARTMENT OF INFORMATION SYSTEMS AND TECHNOLOGY

UNIVERSITY EXAMINATION FOR THE ALL BACHELOR DEGREE

PROGRAMMES

1ST YEAR 1ST SEMESTER 2018 / 2019 ACADEMIC YEAR

MAIN, KISUMU, KISII, NAMBALE, NAIROBI CAMPUSES.

COURSE CODE: SCS 3111

COURSE TITLE: COMPUTER ORGANISATION AND APPLICATIONS

EXAM VENUE: **STREAM:**

DATE: 19/12/2018   **EXAM SESSION: 2.00-4.00PM**

TIME: 2.00 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 1 [30 MARKS]

a) List andexplain fourfunctionalelementsofacomputer system   (8mks)

b) Stateanyfour functionsof acomputer   (4mks)

c) Computershaveevolvedthroughanumberofgenerations.Listany3characteristicsof thefirst

generationof computers.   (3mks)

d) Distinguish clearly between Input devices and output devices and give at least one example

in each.   (4mks)

e) Explainthreewaysthatcomputertechnologycouldmakeofficemoreefficient   (3 mks)

f) State three reasons why users may resist the introduction of information and

communicationTechnology(ICT) totheirplaceof work   (3mks)

g) Explain whythe followingcontrols shouldbeimplementedforcomputerbased systems

                    (2mks)

      (i)Back-ups

      (ii)Password

h) Outline the procedure of renaming a file or folder using windows operating system (3 marks)

QUESTION 2 [20 MARKS]

   a) Givethree comparisons ofthetraditionalmethodoftypingadocument on a typewriter against

      usingawordprocessor   (6 marks)

   b) Dorothy selectedaparagraphin wordprocessing. Explainwhat happenedafter pressingthe

      followingkeyson thekeyboard: (2 mks)

         i.   Ctrl+U
         ii.   Ctrl+ I

   c) PowerPoint includes built-in slide layouts, and you can modify these layouts to meet your specific

      needs. List and explain any FOUR types of Slide layouts.   (4 marks)

   d) Outline any four categories of keys on a QWERTY keyboard   (4 marks)

e) Listfour types of keys foundon acomputer keyboard,givinganexampleof each (4 marks)

QUESTION 3 [20 MARKS]

a) Regardless of the size and complexity of the computer and the operating system, all operating systems perform the same basic functions. Discuss four functions of an operating system **(8mks)**

b) BrieflydescribeTHREEfactors contributingtoInternet accessandgrowthinKenya.

(6mks)

c) List and explain THREE types of computer networks (6 marks)

QUESTION 4 [20 MARKS]

a) Discuss FOUR ways in which your computer can get infected with computer virus

(8 marks)

b) Using relevant examples, discuss the potential benefits to an organization of using the World Wide Web as a business tool. **(8mks)**

c) Computersystemsneedmaximum security toprevent anunauthorizedaccess.Statesix precautionsthatyou wouldexpect anorganization totaketoprevent illegalaccessto its computer-basedsystems. (6mks)

QUESTION 5 [20 MARKS]

a) State two reasonswhich makemicrocomputerssuitablefor personal computing work

(2 marks)

b) List and Explain any FIVE factors to be considered when purchasing a microcomputer (10 marks)

c) Explain the process of mail merging a word document (8 marks)