JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF

EDUCATION EARLY CHILDHOOD DEVELOPMENT

1ST YEAR 1ST SEMESTER 2019 / 2020 ACADEMIC YEAR

INSTITUTIONAL BASED

COURSE CODE: SCS 3111

COURSE TITLE: COMPUTER ORGANISATION AND APPLICATIONS

EXAM VENUE: **STREAM :(ECD)**

DATE: 19/08/19 **EXAM SESSION: 3.00 – 5.00PM**

TIME: 2.00 HOURS

INSTRUCTIONS:

1. **Answer Questions 1 (Compulsory) and ANY other Two(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 room**

QUESTION ONE (30 MARKS)

a) Briefly explain the term "computer booting".   (2 marks)
b) Give and explain two types of booting   (4 marks)
c) List four types of keys found on a computer keyboard, giving an example of each (4 marks)
d) State and explain any four reasons why an organization may prefer using computer systems as opposed to manual systems   (8 Marks)
e) Enumerate three functions performed by the CPU   (6 Marks)
f) Give two advantages of previewing a document before printing   (2 marks)
g) Outline any four main features that make word processors popular programs.   (4 marks)

QUESTION TWO (20 MARKS)
a) Computers have evolved through a number of generations. List any 5 characteristics of the first generation of computers.   (5 marks)
b) State any five characteristics of a digital computer   (5 Marks
c) State and briefly explain five components of a computer hardware   (10 marks)

QUESTION THREE (20 MARKS)

a) State and explain three functional elements of a computer system   (6 marks)
b) In reference to ALU, explain the meaning of logic operations and give an example of this processing operation   (4 marks)
c) Explain any five functions of an operating system software   (10 marks)

QUESTION FOUR (20 MARKS)
a) State four ways by which computer users can protect their eyes from harmful emissions from the computer screen   (4 Marks)
b) Discuss FOUR advantages that electronic mails have over regular mails.   (4mks)
c) Briefly describe THREE factors contributing to Internet access and growth in Kenya.
                                                                                   (6mks)
d) List and explain THREE types of computer networks   (6 marks)

QUESTION FIVE (20 MARKS)

a) State five Ways to avoid computer viruses   (5 marks)

b) List five Symptoms of a computer Virus.   (5 marks)

c) State and Explain five factors which you would consider when selecting computer hardware for an organization   (10   marks)