JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE IN BSC.AGRI-BUSINESS.

2016/2017 ACADEMIC YEAR

COURSE CODE: SCS 3111

COURSE TITLE: COMPUTER ORGANISATION AND APPLICATION.

EXAM VENUE: STREAM: BSc. Comm. Health - eLearning

DATE: EXAM SESSION: APRIL 2017

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 ONE 30 MARKS

a) Define the following

      i. Operating system

      ii. Microcomputer

      iii. Computer hardware

      iv. Multitasking   (4 marks)

b) Explain any three functions of an Operating system.   (6 marks)

c) Discuss the Generations of Computers and Computer languages (8 marks)

d) Describe the following number systems

      i. Binary

      ii. Decimal

      iii. Octal   (6 marks)

e) Differentiate between the following terms as used in computer system and organization

      i.   Impact and non-impact printer

      ii.   Application software and System software

      iii. Random access memory(RAM) and Read only memory(ROM)

                                     (8 marks)

QUESTION TWO 20 MARKS

a) Define the following

      i. Data

      ii. Information   (2 marks)

b) Discuss Advantages of Computers and disadvantages of computers (8 marks)

c) Using an elaborate diagram explain the Computer System Components and Functionalities.   (10 marks)

QUESTION THREE 20 MARKS

a) Convert the following to the relevant number system. Show your working.

      i.   53216 to binary.

      ii.   1011012 to decimal.

      iii. 349010 to hexadecimal   (6 marks)

b) Explain how the following would be useful to you as a community health worker.

      i.   Wordprocessor

      ii.   Database management system

     iii.   Presentation package

     iv.   Spreadsheet   (8 marks)

  c) Discuss two ways in which the Internet challenges privacy?   (4 marks)

QUESTION FOUR 20 MARKS

  a) Define the following and its uses

      i. Registers.   (2 marks)

      ii. Computer Internal Clock   (2 marks)

  b) Describe the following categories of computers

      i. Supercomputer

      ii. Minicomputer

     iii. Microcomputer

     iv. Mainframe   (8 marks)

  c) List any two commonly used operating systems.   (2 marks)

  d) Explain three application areas of computers in the following areas, health, transport and Education   (6 marks)

QUESTION FIVE 20 MARKS

  a) Internet is a tool in the implementation of digital firms, in that it brings both tangible and intangible benefits to organization. Using relevant examples, discuss any TWO tangible and TWO intangible benefits of internet in organization.   (8 marks)

  b) Explain how the Internet has contributed to development of any two sectors in Kenya   (4 marks)

  c) Explain the meaning of the following as used in word processing

      i. Bullets

      ii. Alignment

     iii. Indents

     iv. Line spacing   (8 marks).