JARAMOGI OGINGA ODINGA UNIVERSITY
OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS FOR APRIL 2014

COURSE: IIT 3111: Introduction to Computer Systems

DATE: APRIL 2014   **TIME: 2 HOURS**

Question 1 30 Marks

a) Explain the term I/O device. (2 marks)
b) You have been invited to Bondo Township Secondary school to talk to history students about the development of computers. Clearly describe what you would tell them. (8 marks)
c) Discuss two advantages and two disadvantages of using local area networks (4 marks)
d) Describe the first three generations of computers elaborating technologies used, memory size and example of computer developed during that generation (6 marks)
e) Describe how you would create a folder in "Documents folder" using Windows 7 (4 marks)
f) List and describe the three components of a CPU (6 marks)

Question 2 20 marks

a) You were travelling in a Matatu from Bondo town to Kisumu city, when you heard one passenger telling his neighbour that "the internet is a necessary evil". Discuss this statement in the light of your understanding of internet use. (10 marks)
b) Mention any 4 components of the computer motherboard and their functions (8 marks)
c) Explain how you would copy part of a document and paste it on another document created in Microsoft word 2007. (2 marks)

Question 3 20 marks

a) Name at least any three computer registers and explain their use (3 marks)
b) Describe briefly any four common ways of improving security of personal computers (8 marks)
c) Explain the use of thesaurus and WordArt in Microsoft word 2007. (4 marks)
d) What are main security problems that may arise from the increased use of the internet for e-mail and e-business? (5 marks)

Question 4 20 marks

a) State two advantages of using portable memory (2 marks)
b) Discuss using examples any two methods that may be used to prevent an unauthorized user from accessing a computer (4 marks)
c) Explain how you would insert page numbers in a document using Microsoft word 2007 (4 marks)
d) Convert the following decimal numbers to binary: 156 and 344. (4 marks)
e) Answer the following questions
   i.   Differentiate between hardware and software (2 marks)
   ii. How is tailor made software different from off the shelf software? (4 marks)

Question 5 20 marks

a) State and explain the factors one would consider in order to improve the performance of a computer system. (8 marks)
b) Explain how you would create a table in Microsoft word 2007. (2 marks)

c) Utility is a program used in computers.
   i.   Define a utility program. (2 marks)
   ii. Name four utility programs and describe their functions (8 marks)