



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR BUSINESS

ADMINISTRATIONS

1ST YEAR 1ST SEMESTER 2016 / 2017 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: SCS 3111

COURSE TITLE: COMPUTER ORGANIZATION AND APPLICATION

EXAM VENUE:

STREAM: BBA

DATE: DECEMBER 2016

EXAM SESSION:

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) With an aid of a well labeled diagram, explain the role of the operating system **(8 Marks)**
- b) Differentiate between the following terms:
 - i) Delete and Backspace Key **(2 Marks)**
 - ii) System and Application Software **(2 Marks)**
 - iii) Cold and Warm Booting **(2 Marks)**
- c) List **TWO** system unit form factors **(2 Marks)**
- d) Jomo realized that his computer had been infected with a virus. Outline **FOUR** characteristic/symptoms shown by his computer **(4 Marks)**
- e) State and explain any **THREE** health issues that can be brought about by the use of computers **(6 Marks)**
- f) State and explain any **TWO** areas where computers are used in a business Environment **(4 Marks)**

QUESTION 2 [20 MARKS]

- a) Outline and explain **FOUR** features of the graphical user interface as used in computer systems. **(8 Marks)**
- b) Describe **THREE** optical scanners used for scanning **(6 Marks)**
- c) Peter an IT specialist at Sisma Company intends to purchase word processing software for the company. Outline **TWO** factors that he should consider. **(2 Marks)**
- d) State and explain any **TWO** flat panel displays available in the market today **(4 Marks)**

QUESTION 3 [20 MARKS]

- a) Explain what is meant by a “Write Once Read Many” in relation to Compact Disks. **(2 marks)**
- b) State and explain any **THREE** impacts of computer networks **(6 Marks)**
- c) Enumerate any **THREE** differences between Impact and Non-Impact printers **(6 Marks)**
- d) Write brief notes on the following factors that you would consider when purchasing a computer
 - i) Cost
 - ii) Upgradability and Compatibility

iii) Multimedia Capability

(6 Marks)

QUESTION 4 [20 MARKS]

- a) Depending on permanence of the instructions or data written on it, there are **FOUR** types of Read Only Memory .State and explain the types of ROM (8 Marks)
- b) There are different ways of classifying computer networks but the major classification is according to size. State and explain **THREE** ways in which computer networks are classified according to size. (6Marks)
- c) Compact Disks (CD's) come in **THREE** major forms. Name and explain the **THREE** forms of Compact Disks (6 Marks)

QUESTION 5 [20 MARKS]

- a) Hassan has a problem when typing; every time he wishes to type the word good, he mistakenly types God. What can he do to continue typing without worrying about having to go back to correct the same word over and over again? (3 Marks)
- b) State and explain **FOUR** subdivisions of how system software's are classified (4 Marks)
- c) Classify the following keyboard keys (3 Marks)
- i. Enter, Caps Lock
 - ii. Home, End, Page up ,Arrow Key
 - iii. F1, F2, ... F12
- d) State and explain the historical development of computers stating clearly their characteristics and technology used to develop them. (10 Marks)