



**THE CATHOLIC UNIVERSITY OF EASTERN AFRICA**

**A. M. E. C. E. A**

**MAIN EXAMINATION**

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**AUGUST - DECEMBER 2018 TRIMESTER**

**FACULTY OF COMMERCE**

**DEPARTMENT OF ACCOUNTING AND FINANCE**

**REGULAR PROGRAMME**

**CIS 111: INTRODUCTION TO INFORMATION TECHNOLOGY**

**Date: DECEMBER 2018**

**Duration: 2 Hours**

**INSTRUCTIONS: Answer Question ONE and ANY OTHER TWO Questions**

- Q1. a) State what the following descriptions imply in computer system:
- a) Computer hardware on the motherboard, it is responsible for all the processing within the computer. The processing speed is measured in gigahertz. **(2marks)**
  - b) Computer hardware that serves as input and output medium, the quality of the hardware is described in mega pixels and retina display. **(2 marks)**
  - c) A dear part of a computer system mounted on the motherboard and stores data/programs for immediate processing. Its content can easily be lost in case of power outage/ when power supply is interrupted **(2marks)**
  - d) Computer hardware device that handles permanent storage of data/information for later retrievals. **(2 marks)**
  - e) Hardware input device that is used to input pictures, read barcodes or handwriting into the computer. **(2marks)**
  - f) Hardware device that handles frequently used data or programs **(2 marks)**

- g) Hardware devices that produces output inform of sound **(2 marks)**
- h) Hardware devices that contain embedded software with a dedicated functionality; e.g. sound, graphics, network or TV service **(2 marks)**
- b) State an example of software that is used in the following areas of applications:
  - i) An application software for processing accounting data into financial reports: statements of financial position, statement of profit and loss etc **(2marks)**
  - j) A utility software for scanning and eradicating computer malicious software (malware) **(2marks)**
  - k) Operating system software: serves as a platform from which application software in the computer operates. **(2marks)**
  - l) System software developed by computer hardware manufactures responsible for initial start up/ booting up of the computer. **(2marks)**
  - m) Software for planning and managing projects. **(2marks)**
  - n) Software for publication publications of books and journals **(2marks)**
  - o) An application software used for word processing **(2 marks)**

Q2. An operating system (OS) is system software that manages computer hardware and software resources and provides common services for computer programs.

- a) State two examples operating systems software used in personal computers and one example for an operating system used with smart phones. **(5 marks)**
- b) Explain any five functions of operating system software in a functional computer system. **(15 marks)**

Q3. Most organizations are data rich and information poor. This means there is a lot data captured in organizations but insufficient reports to inform management and other interested stakeholders in decision making.

- a) Differentiate data and information **(4 marks)**
- b) Justify the rationale of using computer systems as the best data processing tool **(6 marks)**
- c) What are the attributes of good quality information **(10 marks)**

- Q4. Every organization considers it important to invest in a network of its computers so that they can be able to maximize profits for the organization.
- a) Explain the benefits of networking **(6 marks)**
  - b) Describe the main network topologies stating the advantages and disadvantages of each. **(14 marks)**

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