



# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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

**MAIN EXAMINATION**

**MAY – JULY 2018 TRIMESTER**

**FACULTY OF SCIENCE**

**DEPARTMENT OF COMPUTER AND LIBRARY SCIENCE**

**REGULAR PROGRAMME**

**CMT 102: FUNDAMENTALS OF COMPUTING / COMPUTER LITERACY**

<b>Date: JULY 2018</b>	<b>Duration: 2 Hours</b>
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<b>INSTRUCTIONS: Answer Question ONE and any other TWO Questions</b>
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- Q1. a) Define the term Computer (2marks)
- b) Identify and briefly explain any four characteristics / properties of a good working computer (8 marks)
- c) Differentiate between System software and Application software (4 marks)
- d) Explain the term Computer virus (2marks)
- e) Differentiate between a Database and Database management system(DBMS) (8 marks)
- f) Define / explain the term Network Topology (6 marks)
- Q2. Define / Explain the following terms as used in information technology:
- i) Software (2marks)
  - ii) Peripheral Device (2marks)
  - iii) Clone Computer (2 marks)
  - iv) Computer System (2 marks)
  - v) Byte (2 marks)
  - vi) Device Driver (2 marks)
  - vii) Port (2 marks)
  - viii) Computer network (2 marks)

- Q3. a) One of the main functions of an Operating system software is the provision of the user-machine interface screen. Identify and briefly explain the three possible screen interface types that are provided when a computer is booted. **(10marks)**
- b) In recent days, many computer users have been noticed to prefer using packaged software. Explain why this is so. **(10marks)**
- Q4. a) In reference to an opened MS Excel program window explain the following terms:
- i) Cell Address **(2.5marks)**
  - ii) Formula bar **(2.5marks)**
  - iii) Workbook **(2.5marks)**
  - iv) Name box **(2.5marks)**
- b) List the five steps that constitute the word processing process. **(5marks)**
- c) List five advantages of using computer based word processing. **(5marks)**
- Q5. a) Differentiate between the term INTERNET and WORLD WIDE WEB. **(6marks)**
- b) Identify and briefly explain the infrastructure items, in respect of hardware, software and other resources you will require to connect your computer so that you will be able to use it to surf the net and also send e-mails **(14marks)**

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