



# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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

**MAIN EXAMINATION**

**AUGUST – DECEMBER 2018 TRIMESTER**

**FACULTY OF SCIENCE**

**DEPARTMENT OF COMPUTER AND LIBRARY SCIENCE**

**REGULAR PROGRAMME**

**CMT 406: ICT AND SOCIETY**

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**Date: DECEMBER 2018**

**Duration: 2 Hours**

**INSTRUCTIONS: Answer Question ONE and any other TWO Questions**

Q1. a) Compare and contrast the following terminologies in ICT and society  
(12 marks)

- i) Malicious code threats Vs Antivirus and Anti-Spyware
- ii) Hacking VS Firewall
- iii) Natural disaster VS data backup
- iv) Theft VS human aspects

b) Differentiate between Ethics and Law. (4 marks)

c) List and explain FIVE reasons why we need Cyber Laws (5 marks)

d) Explain what a computer system is (3 marks)

e) Explain what is Authentication? (2 marks)

f) List and explain the TWO major methods of authentications (4 marks)

Q2. a) List and explain the FOUR types of Intellectual Property Protection  
(8 marks)

b) Outline and explain SIX major Biometric methods for Authentication in ICT.  
(12 marks)

- Q3. a) List and explain the major impacts of ICT to society both positive and negative **(8 marks)**
- b) Outline the SIX major security measures that would be implemented in an organization and explain how they are effective **(12 marks)**
- Q4. a) Outline the SIX effects of controversial content to the society. **(12 marks)**
- b) Explain what is commerce? And outline how commerce was before and after ICT. **(6 marks)**
- c) Explain what is Controversial content? **(2 marks)**
- Q5. a) Explain what a firewall is in ICT **(2 marks)**
- b) List and explain the THREE major types of Firewalls giving the characteristics of each one of them **(6 marks)**
- c) Outline and explain the major difference between First Generation and Fourth generation of computers in History. **(12 marks)**

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