

# **MAASAI MARA UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2021/2022 (REGULAR)**

# SCHOOL OF PURE, APPLIED AND HEALTH SCIENCES DEGREE OF BACHELOR OF SCIENCE (COMPUTER SCIENCE)

FOURTH YEAR FIRST SEMESTER EXAMINATION

## **COURSE CODE: COM 4106**

## **COURSE TITLE: ICT AND SOCIETY**

DATE: 4<sup>th</sup> APRIL 2022 T

TIME:2:30pm- 4:30pm

### **INSTRUCTIONS TO CANDIDATES**

- Question ONE in Section "A " is Compulsory
- Answer any Two (2) Questions from Section "B"
- Illustrate your answers where necessary

#### **QUESTION ONE**

(a) Explain the following terminologies in ICT.

(5 marks)

(10 marks)

- (i) Ubiquitous computing
- (ii) Trolling
- (iii) Biometrics
- (iv) Augmented Reality
- (v) White hacker
- (b) Discuss FIVE (5) technologies that were adopted by citizens during the COVID-19 pandemic lockdown. (5 marks)
- (c) Discuss the trends in the educational sector.
- (d) According to the Digital Data Report of 2021, Kenya has 21.75 million Internet subscribers. Discuss reasons attributing to this amazing trend in Internet usage. (10 marks)

#### **QUESTION TWO**

- (a) Discuss the following concepts as used in security of information systems:
  - (i)Authentication(2 marks)(ii)Identification(2 marks)
- (iii) Authorization
  - (iv) Audit trails
  - (v) Filtering

(2 marks) (2 marks)

(2 marks)

(b) As online stores become more advanced, it is important to be aware of the potential security risks that exist. Explore the different types of security threats that come with e-commerce and give the best methods to avoid them.

#### (5 marks)

(c) Discuss THREE (3) methods that can be used by parents to limit access to the Internet by minors. (5 marks)

#### **QUESTION THREE**

- (a) Discuss FIVE (5) ways in which the government can bridge the digital divide gap. (5 marks)
- (b) Discuss the technological trends observed in hardware and software development. (5 marks)
- (c) As an IT expert, you have been approached by an organization that campaigns for the rights of children to give a talk on the dangers of social media. Discuss the relevant points you would put across for your talk.
  (10 marks)

### **QUESTION FOUR**

- (a) "Digital content creators should avoid posting controversial content on the Internet."
  - (i) Explain what controversial content entails in content creation.

(5 marks)

- (ii) Discuss the impact of posting controversial content. **(5 marks)**
- (b) Discuss how ICT has contributed to widening the digital divide in Kenya. (5 marks)
- (c) Discuss FIVE (5) technologies that uses a person's physical characteristics to prevent illegal access to an organizations information systems.

(5 marks)