

CHUKA

UNIVERSITY



**UNIVERSITY EXAMINATIONS**

**FIRST YEAR EXAMINATION FOR THE AWARD OF DIPLOMA IN COMPUTER SCIENCE**

**COSC 0261: E-SYSTEMS**

**STREAMS:**

**TIME: 2 HOURS**

**DAY/DATE: WEDNESDAY 07/07/2021**

**11.30 A.M. – 1.30 P.M.**

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**INSTRUCTIONS:**

- Answer question ONE and TWO other questions
- Do not write anything on the question paper
- This is a closed book exam, No reference materials are allowed in the examination room
- There will be NO use of mobile phones or any other unauthorized materials
- Write your answers legibly and use your time wisely.
- Marks are awarded for clear and concise answers.

**QUESTION ONE (30 Marks)**

- a. Define the following terms as used in E-Systems
  - i. E-commerce (2marks)
  - ii. Search engine (2marks)
- b. list any two programming languages used for website development (2marks)
- c. list any three products /services that are secured under intellectual property rights (3marks)
- d. List three platforms that a business can use to establish a digital presence (3marks)
- e. List two disadvantages of E-commerce (2marks)
- f. Name any three internet features on which the foundation of ecommerce is built(3marks)
- g. explain the two principal ways of connecting to the internet (4marks)
- h. List the three types of e-market places (3marks)

- i. Name any three entities that make up the digital economy (3marks)
- j. List the three types of e- market places (3marks)

**SECTION B (Answer any TWO questions)**

**QUESTION TWO (20 Marks)**

- a. Lowlands a newly established 3-star hotel at Ndagani has approached you to design and develop for them an e c-commerce site. Discuss five website development tools that you will use for the project. (10 marks)
- b. Explain five factors that fuel the growth and development of electronic commerce. (10 marks)

**QUESTION THREE (20 Marks)**

- a. Discuss the following types of E searches
  - i. Web search ( 3marks)
  - ii. Enterprise search ( 3marks)
  - iii. Desktop search ( 3marks)
- b. Differentiate between mash up and social book marking (4marks)
- c. State any three limitations of E-Auction ( 3marks)
- d. Outline **four** benefits of Electronic Data Interchange. (4 marks)

**QUESTION FOUR (20 Marks)**

- a. Discuss The key infrastructures components that are needed to support EC applications (10marks)
- b. Discuss the search query process as performed by a search engine (10marks)

**QUESTION FIVE (20 Marks)**

- a) With an aid of a diagram; describe three major Local Area Network topologies. (12 marks )
  - b) Explain four challenges facing implementation of electronic payment systems.(8 marks)
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