# **CHUKA**



#### UNIVERSITY

(2 marks)

### **UNIVERSITY EXAMINATIONS**

### **CHUKA AND EMBU CAMPUSES**

#### EXAMINATION FOR THE AWARD OF DIPLOMA IN COMPUTER SCIENCE

**COSC 0261: E-SYSTEMS** 

STREAMS: DIPLOMA (COMPUTER SCIENCE)

TIME: 2 HOURS

DAY/DATE: THURSDAY 23/09/2021 11.30 A.M – 1.30 P.M.

#### **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	F-commerce

1.	L'ediliniere	(2 marks)
ii.	Patents	(2 marks)
iii.	Firewall	(2 marks)
b)	Name any three entities that make up the digital economy	(3 marks)
c)	List any three sectors where e-commerce technology is applied	(3 marks)
d)	what is the fundamental difference between traditional signatures and digital signatures (2 marks)	
e)	Name any three types of online malls	(3 marks)
f)	explain the two principal ways of connecting to the internet	(4 marks)
g)	Differentiate between SEM and SEO	(4 marks)
h)	List two platforms that a business can use to establish a digital presence	(2 marks)

i) List three examples of call-to-action features on an ecommerce website (3 marks)

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

## **QUESTION TWO (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]

### **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		
c.	s. State any three limitations of E-Auction		

c. State

d. Outline **four** benefits of Electronic Data Interchange. (4 marks)

# **QUESTION FOUR (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. Discus 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 FIVE (20 Marks)**

- a. Discuss the following concepts in relation to Intellectual Property Assets (10 marks)
- I. **Patents**
- II. **Trademarks**
- III. Copy rights
  - b. Discus five types of attacks that can be carried out on a business enterprises network (10 marks)