CHUKA



UNIVERSITY

(2 marks)

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DIPLOMA COMPUTER SCIENCE

COSC 0261: E-SYSTEMS

STREAMS: DIP. COMP. SCI

TIME: 2 HOURS

DAY/DATE: MONDAY 29/03/2021 8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

i) EDI

- 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

	1) EDI	(2 marks)
	ii) Encryption	(2 marks)
	iii) Patents	(2 marks)
b.	Differentiate between SEM and SEO	(4 marks)
c.	List three platforms that a business can use to establish a digital presence	(3 marks)
d.	List three advantages of E-commerce	(3 marks)
e.	Name any three internet features on which the foundation of ecommerce is built	(3 marks)
f.	Discuss the Tension Between Security and Other Values during the development	of
	ecommerce sites	(4 marks)
g.	List three examples of call-to-action features on an ecommerce website	(3 marks)
h.	list any two programming languages used for website development	(2 marks)
i.	list two types of electronic payment systems	(2 marks)

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SECTION B (ANSWER ANY TWO QUESTIONS) OUESTION TWO (20 MARKS)

QUESTION I WO (20 MARKS)	
a. Discuss the key infrastructures components that are needed to support EC a	applications
	(10 marks)
b. Discuss the search query process as performed by a search engine	(10 marks)
QUESTION TWO (20 MARKS)	
a. Discuss how the following tools can be used to enhance security on an e-c	ommerce site
	(12 marks)
i) Firewalls	
ii) IDS	
iii) VPN	
b. Explain four factors that fuel the growth and development of electronic con	nmerce.
	(8 marks)
QUESTION FOUR (20 MARKS)	
a. Discuss the following e commerce models	
i. B2B	(3 marks)
ii. C2B	(3 marks)
iii. C2C	(3 marks)
b. Discuss the three entities that make up the WWW architecture	(6 marks)
c. Discuss the classification of computer networks according to geographical	coverage
	(5 marks)
QUESTION FIVE	
a. Discuss the following concepts in relation to Intellectual Property Asset	s (12 marks)
i) Patents	
ii) Trademarks	
iii) Copy rights	
iv) Franchise	
b. Explain four challenges facing implementation of electronic payment sy	stems. (8 marks)