CHUKA



UNIVERSITY

FIRST YEAR EXAMINATION FOR THE AWARD OF DIPLOMA COMPUTER SCIENCE

COSC0261: E-SYSTEMS

TIME: 2 HOURS

DAY/DATE:

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

SECTION B (Answer any TWO questions)

marks]

QU		TION TWO (20 Marks)						
	a.	Discuss The key infrastructures components that are needed to support EC applica						
	L		(10marks)					
	b.	Discuss the search query process as performed by a search engine	(10marks)					
QU		TION TWO (20 Marks)						
	a.	Discuss how the following tools can be used to enhance security on an e-commercial						
	• `		(12marks)					
		Firewalls						
		IDS						
		VPN						
	b.	Explain four factors that fuel the growth and development of electronic commerce	. (8marks)					
QU	JES	TION FOUR (20 Marks)						
	a.	Discuss the following e commerce models						
		i. B2B	(3marks)					
		ii. C2B	(3marks)					
		iii. C2C	(3marks)					
	b.	Discuss the three entities that make up the WWW architecture	(6marks)					
	c.	Discuss the classification of computer networks according to geographical coverage	(5marks)					
QU	JES	TION FIVE						
	a.	Discuss the following concepts in relation to Intellectual Property Assets (1	2 marks)					
	i)	Patents						
	ii)) Trademarks						
	iii)	ii) Copy rights						
	iv)	Franchise						
	b.	Explain four challenges facing implementation of electronic payment sy	stems. [8					