

#### **CS FOUNDATION LEVEL**

#### INFORMATION COMMUNICATION TECHNOLOGY

WEDI	NESDAY: 4 December 2024. Afternoon Paper.	Time Allowed: 3 hours.		
This paper has seven (7) questions. Answer any FIVE questions. ALL questions carry equal marks. Do NOT write anything on this paper.				
<b>QUES</b> (a)	TION ONE Highlight FOUR ways of recovering data lost through accidental erasure.	(4 marks)		
(b)	Describe FOUR activities that are carried out during information system implementation	n phase. (4 marks)		
(c)	Outline <b>SIX</b> ways in which the internet can be used in banking and finance.	(6 marks)		
(d)	Examine <b>SIX</b> challenges businesses face when integrating enterprise applications for bus	siness process integration. (6 marks) (Total: 20 marks)		
<b>QUES</b> (a)	<b>TION TWO</b> Explain <b>TWO</b> process management activities of an operating system.	(4 marks)		
(b)	Explore FOUR roles of edge computing in Internet of Things (IoT).	(4 marks)		
(c)	Highlight <b>FOUR</b> measures that could be used to minimise unethical Information Co (ICT) practices in an organisation.	mmunication Technology (4 marks)		
(d)	Discuss FOUR steps carried out during system requirements elicitation process.	(8 marks) (Total: 20 marks)		
<b>QUES</b> (a)	TION THREE Outline FOUR potential risks of using outdated software.	(4 marks)		
(b)	Highlight FOUR environmental impacts of Information Communication Technology (IC	CT) in business. (4 marks)		
(c)	Discuss THREE roles of source document integration in computerised accounting system	ms. (6 marks)		
(d)	Examine <b>SIX</b> reasons why an operating system is deemed crucial for the proper function	ing of a computer system. (6 marks) (Total: 20 marks)		
<b>QUES</b> (a)	TION FOUR Describe FOUR ways in which an information system supports decision-making	within an organisation. (4 marks)		
(b)	Explain FOUR benefits of using goal seek in financial analysis.	(4 marks)		

(c) Examine **THREE** benefits of prototyping in identification and clarification of user requirements. (6 marks)

(d)	Currently, the use of wireless data transmission media has increased. However, it still faces many challenges.		
	Evaluat	te <b>THREE</b> such challenges. (7)	(6 marks) T <b>otal: 20 marks</b> )
QUES (a)	<b>FION FI</b> Explain	<b>VE</b> <b>THREE</b> benefits that would accrue to a business as a result of using mobile applications.	(3 marks)
(b)	Explain	FIVE reasons why a non- impact printer may be better than an impact printer in an off	ice environment. (5 marks)
(c)	One of	the common e-commerce security issues is lack of trust in the privacy and e-commerce sec	curity.
	Explain	THREE methods attackers use to compromise e-commerce security.	(6 marks)
(d)	Describ	be <b>THREE</b> maintenance utilities in an operating system.	(6 marks) Total: 20 marks)
QUES (a)	<b>FION SI</b> Outline	X TWO strategies to overcome each of the following challenges in electronic commerce:	
	(i)	Security challenge.	(2 marks)
	(ii)	High competition challenge.	(2 marks)
	(iii)	High customer acquisition costs.	(2 marks)
	(iv)	Challenges in maintaining customer trust.	(2 marks)
(b)	Identify	FOUR features to look for when selecting an accounting software for use in an organisat	ion. (4 marks)
(c)	Highlig	ht FOUR potential benefits of implementing Internet of Everything (IoE) in businesses.	(4 marks)
(d)	Examin	The FOUR benefits of conducting a post-implementation review (PIR) of an information (7)	n system project. (4 marks) F <b>otal: 20 marks</b> )
QUES (a)	<b>FION SE</b> Outline	<b>EVEN</b> FOUR features that should be considered when choosing a presentation software.	(4 marks)
(b)	Disting	uish between "incremental backup" and "differential backup".	(4 marks)
(c)	Maureen Bett was required to outline system specifications to be used in a proposed information system.		
	Describe <b>THREE</b> typical contents of the specification document. (6 marks)		
(d)	Citing a	an example in each case, explain <b>THREE</b> methods of linking worksheets in a spreadsheet. (7)	(6 marks) Fotal: 20 marks)



#### **CS FOUNDATION LEVEL**

#### INFORMATION COMMUNICATION TECHNOLOGY

WED]	NESDAY	Y: 21 August 2024. Afternoon Paper. Ti	me Allowed: 3 hours.
		s seven (7) questions. Answer any FIVE questions. ALL questions carry equal n is paper.	narks. Do NOT write
QUES	STION C	DNE	
(a)	Explai	in the function of an operating system in job accounting.	(2 marks)
(b)	Highli	ght <b>THREE</b> ways in which operating systems authenticate users.	(3 marks)
(c)	Outlin	e FOUR functions of user documentation during the development of an information s	ystem. (4 marks)
(d)	Enum	erate <b>FIVE</b> factors to consider when designing an information system output.	(5 marks)
(e)		nation Communication Technology (ICT) has heightened ethical issues and exerted arrangements.	d pressure on existing
	Discus	ss <b>THREE</b> technological trends that are responsible for the above issues.	d pressure on existing option (6 marks) (Total: 20 marks)
OUES	STION T	WO	
(a)		in <b>TWO</b> benefits of using pivot tables in a spreadsheet software.	(4 marks)
(b)	Outlin	e FOUR applications of mobile computing in the financial sector.	(4 marks)
(c)	Descri	ibe FOUR ways in which the Internet of Things (IoT) impacts our daily lives.	(4 marks)
(d)		ine FOUR ways on how an organisation should handle sensitive data in order to	
	prever	nt unauthorised access and data misuse.	(8 marks)
			(Total: 20 marks)
-	STION T		
(a)	Highli	ght <b>THREE</b> important factors to consider when choosing a network topology.	(3 marks)
(b)	An org	ganisation processes and stores large volumes of data in an information system.	
	Explai	in <b>THREE</b> data security goals that the organisation might aim to achieve in the above	scenario. (3 marks)
(c)	(i)	Examine <b>TWO</b> challenges of e-commerce infrastructure.	(4 marks)
	(ii)	Describe <b>FOUR</b> ways that could be used to secure an e-commerce infrastructure.	(4 marks)
(d)	Using	an appropriate scenario, demonstrate how you would solve a business problem usi	ng spreadsheet solver. (6 marks)
			(Total: 20 marks)

#### **QUESTION FOUR**

<b>QUES</b> (a)	<b>STION FOUR</b> Explain <b>TWO</b> circumstances that would necessiate an organisation to use the outsourcing m information system.	ethod to acquire an (4 marks)
(b)	Highlight <b>FOUR</b> limitations of cloud computing.	(4 marks)
(c)	Explain <b>THREE</b> circumstances that could necessitate setting up of a Local Area Networganisation.	work (LAN) in an (6 marks)
(d)	Highlight SIX measures that could be used to minimise unethical ICT practices in an orgnisation	on. (6 marks) ( <b>Total: 20 marks</b> )
<b>QUES</b> (a)	<b>STION FIVE</b> State <b>TWO</b> factors that determine the choice of data collection method.	(2 marks)
(b)	List THREE deliverables produced during the systems analysis phase of an information system	ystem development. (3 marks)
(c)	Examine <b>THREE</b> ways that prototyping helps to identify and clarify user requirements.	(3 marks)
(d)	Giving TWO examples in each case, differentiate between an "application suite" and an "in	ntegrated software". (6 marks)
(e)	Examine <b>THREE</b> factors that could be used to determine the capabilities of a data tra	nsmission medium. (6 marks) ( <b>Total: 20 marks</b> )
-	TION SIX	
(a)	Outline <b>THREE</b> characteristics of mobile cloud computing application.	(3 marks)
(b)	Explain FOUR services offered by an Internet Service Provider (ISP).	(4 marks)
(c)	Highlight <b>FOUR</b> circumstances that would necessitate an organisation to use mail merge processing program.	e feature in a word (4 marks)
(d)	List FOUR disadvantages of prototyping in systems analysis and design.	(4 marks)
(e)	Describe <b>FIVE</b> major activities of an operating system with regard to process management.	(5 marks) (Total: 20 marks)
<b>QUES</b> (a)	TION SEVEN Discuss THREE activities involved during information system requirements elicitation proces	s. (6 marks)
(b)	Outline FOUR activities of an operating system in regard to management of secondary storage	e. (4 marks)
(c)	Describe FOUR environmental impact of ICT in business.	(4 marks)
(d)	The introduction of new information technology raises new ethical, social, and political issue with on an individual, social, and political levels.	s that must be dealt
	Discuss <b>THREE</b> moral dimensions raised by these issues.	(6 marks) (Total: 20 marks)

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#### **CS FOUNDATION LEVEL**

INFORMATION COMMUNICATION TECHNOLOGY					
WEDN	WEDNESDAY: 24 April 2024. Afternoon Paper. Time Allowed: 3 hours.				
-	aper has seven (7) questions. Answer any FIVE questions. ALL questions carry equange on this paper.	al marks. Do NOT write			
QUES (a)	TION ONE List TWO limitations of mobile computing.	(2 marks)			
(b)	Identify SIX factors to consider in the selection and acquisition of a computer operating	system. (6 marks)			
(c)	Every organisation, regardless of its size or industry needs to prioritise the implementatic controls.	on of robust data security			
	Explain FOUR types of data security controls.	(8 marks)			
(d)	Quick Response (QR) codes have gained significant popularity in recent years, bec technology for various purposes.	(0 marks) coming a widely adopted of the contraction of the contractio			
	Outline FOUR reasons for the popularity of QR codes.	(4 marks) (Total: 20 marks)			
<ul> <li>QUESTION TWO</li> <li>(a) The emergence of mobile communication applications has revolutionised how people communicate and interact with each other.</li> </ul>					
	Explain FOUR essential features of a communication application.	(8 marks)			
(b)	Outline SIX moral dimensions associated with information systems.	(6 marks)			
(c)	A company uses cloud computing technology for data storage.				
	Explain <b>THREE</b> ethical challenges the company might face while using this technology	. (6 marks) (Total: 20 marks)			
QUES (a)	TION THREE An increase in online data processing has led to increased rate of computer crimes.				
	Describe THREE control measures that could be put in place to reduce computer criteria	ime rate in organisations. (6 marks)			
(b)	Explain THREE circumstances that would necessitate the use of pilot approach dur	ring system change over. (6 marks)			
(c)	Explain the following functions as used in spreadsheet application:				
	(i) SUMIF.	(2 marks)			

(ii) PMT. (2 marks)

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(d)	An organisation installed an inhouse developed application software to support their operations.	
	State FOUR advantages they would gain by using this software. (Tot	(4 marks) al: 20 marks)
<b>QUEST</b> (a)	TION FOUR Describe TWO reasons that would necessitate the use of water mark on a word processing	ng document. (4 marks)
(b)	Explain FOUR circumstances when batch operating system would be most appropriate.	(4 marks)
(c)	Explain <b>THREE</b> types of feasibility studies that are conducted during the development of an inform	nation system. (6 marks)
(d)	Highlight SIX challenges of e-commerce in developing countries. (Tot	(6 marks) al: 20 marks)
QUEST (a)	TION FIVE Outline SIX core processes for software development.	(6 marks)
(b)	Explain TWO reasons why a major operating system must evolve over time.	(4 marks)
(c)	Examine <b>THREE</b> methods that could be used to prevent social engineering related attacks.	(6 marks)
(d)		ment method. (4 marks) al: 20 marks)
(a)	FION SIX Explain TWO reasons for multi-booting.	(2 marks)
(b)	Implementation is an importance phase in the development of an information system.	
	Describe THREE activities carried out in this phase.	(6 marks)
(c)	Business owners looking to manage financial data tend to embrace two primary options; spreaccounting software.	eadsheets and
	Evaluate THREE reasons why businesses prefer using accounting softwares.	(6 marks)
(d)	Explain THREE differences between "word processing software" and "desktop publishing software" (Tot	e". (6 marks) al: 20 marks)
QUEST (a)	(i)Identify FOUR security threats in mobile applications.	(4 marks)
	(ii) Propose an appropriate measure to mitigate each of the threats identified in (a) (i) above.	(4 marks)
(b)	Social concerns in information systems are a crucial aspect of the development and imple information systems. These concerns are related to ethical, social, political and moral issues that a use of information systems.	
	Examine FOUR social issues in Information Systems.	(8 marks)
(c)	Describe FOUR events that might spark an iterative process in software development. (Tot	(4 marks) al: 20 marks)

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#### **CS FOUNDATION LEVEL**

#### INFORMATION COMMUNICATION TECHNOLOGY

WEDNESDAY: 6 December 2023. Afternoon Paper. Time Allowed: 3 hours. This paper has seven (7) questions. Answer any FIVE questions. ALL questions carry equal marks. DO NOT write anything on this paper. **OUESTION ONE** Highlight TWO benefits of linking worksheets in a spreadsheet program. (2 marks) (a) Outline FOUR qualities of a good system documentation. (b) (4 marks) (c) Explain THREE desirable features of e-commerce websites that could enable customers find products quickly. (6 marks) (d) Examine FOUR challenges associated with cloud storage. (8 marks) (Total: 20 marks) A.A. **OUESTION TWO** (4 marks) Citing **TWO** examples, explain the term "mobile operating system". (a) (b) Using an example, explain the use of the "IF" function in a spreadsheet application. (4 marks) Explain THREE ways in which a transaction processing system helps in improving operations of an organisation. (c) (6 marks) Analyse **THREE** factors that should be considered when creating a computer network. (6 marks) (d) (Total: 20 marks) **OUESTION THREE** Differentiate between pilot implementation methodology and parallel information systems implementation (a) methodologies. (2 marks) Highlight FOUR benefits of a network operating system to an organisation. (4 marks) (b) Outline FOUR roles of an Information Systems Analyst. (4 marks) (c) (d) Explain TWO technical trends that generate ethical concerns. (4 marks) (e) (i) Distinguish between systems analysis and systems design. (2 marks) (ii) Citing **TWO** reasons, explain the purpose of the system development life cycle. (4 marks)

(Total: 20 marks)

#### **QUESTION FOUR**

QUES (a)	<b>TION FOUR</b> Explain <b>TWO</b> circumstances that would necessitate the use of speaker notes during a presentation.	(4 marks)
(b)	Baraka Company limited networked their computers to enhance their operations.	
	Outline FOUR methods they could use to maintain security for their information in the network.	(4 marks)
(c)	Explain THREE ethical issues related to e-commerce for a business organisation.	(6 marks)
(d)	Justify with THREE reasons why an organisation would install a tailor-made software. (Total	(6 marks) <b>: 20 marks)</b>
QUES (a)	<b>TION FIVE</b> Examine <b>TWO</b> obstacles/challenges that could be faced by organisations when implementing a information system.	management (4 marks)
(b)	With respect to questionnaires, distinguish between open ended questions and closed ended question data collection.	ns as used in (4 marks)
(c)	Enumerate SIX ways to secure e-commerce transactions from various threats.	(6 marks)
(d)	Highlight SIX benefits of post-implementation review of an information systems project. (Total	(6 marks) <b>: 20 marks)</b>
-	TION SIX	
(a)	Explain the term "proofreading" as used in a word processing program.	(2 marks)
(b)	State the unit of measuring a computer's clock speed, RAM size, Hard disk size and monitor size.	(4 marks)
(c)	Discuss THREE challenges associated with the use of external hard drives.	(6 marks)
(d)	Examine FOUR legal issues associated with the use of information systems. (Total	(8 marks) <b>: 20 marks)</b>
-	TION SEVEN	
(a)	Highlight <b>TWO</b> bookkeeping capabilities of a computerised accounting software.	(2 marks)
(b)	Explain FOUR application areas of "What if" analysis feature in spreadsheet application.	(4 marks)
(c)	Outline SIX hindrances to the adoption and success of voice user interface technology.	(6 marks)
(d)	Discuss FOUR ways in which an organisation could optimise the use of information systems to ensu productivity in a functional perspective. (Total	re improved (8 marks) : 20 marks)



#### **CS FOUNDATION LEVEL**

#### INFORMATION COMMUNICATION TECHNOLOGY

Time Allowed: 3 hours.

#### Answer any FIVE questions. ALL questions carry equal marks. DO NOT write anything on this paper.

#### **QUESTION ONE**

(a) Explain how the following elements affect the processing power of a computer:

	(i)	Cache memory.	(2 marks)
	(ii)	Data bus.	(2 marks)
	(iii)	Type of processor.	(2 marks)
(b)	List <b>F</b> (	<b>DUR</b> limitations of star network topology.	(4 marks)
(c)	Highlig	the FOUR salient features of a Computerised Accounting Software (CAS).	(4 marks) (4 marks) (6 marks)
(d)	Outline	SIX advantages of a pivot table report.	(6 marks) (Total: 20 marks)

#### **QUESTION TWO**

(a) Highlight **THREE** principles used to measure the integrity of data in an information system. (3 marks)

(b) Explain the significance of the following **FIVE** features of a presentation program.



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(c)	Examine <b>FRE</b> E way	/s in which an obe	raling system prov	vides data security in .	a computer system.	to marks)
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(d) Explain the impact of **THREE** technological trends that pose ethical challenges to organisations. (6 marks) (**Total: 20 marks**)

#### **QUESTION THREE**

(c)

- (a) Highlight **TWO** ethical issues that need to be considered by an information systems development team. (2 marks)
- (b) Explain **TWO** types of computer networks under each of the following criterion:

(i)	Functionality.	(4 marks)
(ii)	Ownership.	(4 marks)
(iii)	Transmission media.	(4 marks)
Assess	THREE information system vulnerabilities and their respective countermeasures.	(6 marks)

(Total: 20 marks)

(5 marks)

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#### **QUESTION FOUR**

QUES (a)	<b>TION FOUR</b> Distinguish between "Executive Support System (ESS)" and "Decision Support System (DSS)".	(2 marks)
(b)	Highlight SIX advantages of Conditional Formatting in a spreadsheet program.	(6 marks)
(c)	Explain THREE components of a computer network.	(6 marks)
(d)	Analyse SIX benefits of developing a Disaster Recovery Plan (DRP). (1	(6 marks) F <b>otal: 20 marks)</b>
QUES (a)	TION FIVE List FIVE limitations of computer networking.	(5 marks)
(b)	Highlight <b>FIVE</b> reasons why an organisation may choose an off-the-shelf software package.	(5 marks)
(c)	Highlight <b>FIVE</b> benefits of cloud storage.	(5 marks)
(d)	Examine FIVE major components of e-commerce infrastructure. (7	(5 marks) Fotal: 20 marks)
QUES (a)	TION SIX (i) State TWO examples of Network Operating System (NOS) from different software ma	anufacturers. (2 marks)
	(ii) List <b>TWO</b> advantages and <b>TWO</b> disadvantages of Network Operating Systems (NOS)	. (4 marks)
(b)	Outline FOUR reasons why Read Only Memory (ROM) is preferred for storing firmware.	(4 marks)
(c)	Summarise FOUR ways in which a transaction processing system improves operations of an orga	nisation. (4 marks)
(d)	A library management system is an example of an information system.	
	In relation to the above statement, state TWO relevant examples of the following items in a librar	y system:
	(i) Data.	(2 marks)
	(ii) Processing.	(2 marks)
	(iii) Information. (T	(2 marks) Fotal: 20 marks)
QUES (a)	TION SEVEN Explain TWO ways in which an operating system acts as a resource manager.	(4 marks)
(b)	Highlight FOUR benefits of Internet of Things (IoT) in smart home.	(4 marks)
(c)	Outline SIX instances when you would recommend prototypes during system development.	(6 marks)
(d)	Examine SIX benefits associated with business processes integration. (1	(6 marks) Fotal: 20 marks)



#### **CS FOUNDATION LEVEL**

#### INFORMATION COMMUNICATION TECHNOLOGY

#### WEDNESDAY: 26 April 2023. Afternoon Paper.

Time Allowed: 3 hours.

#### Answer any FIVE questions. ALL questions carry equal marks. Do NOT write anything on this paper.

#### **QUESTION ONE**

(a) Veronica and Simon have each bought a computer labelled Computer A and B respectively, with the following specifications:

Computer A	Computer B
128GB Flash Drive	512GB Hard Drive
16GB RAM	8GB RAM
150DPI Screen	225DPI Screen
15 inch screen	13 inch screen

#### **Required:**

Assuming that the cost of the two computers are the same, list **TWO** strengths of Computer A and **TWO** strengths of Computer B, describing the impact of each strength. (4 marks)

- (b) Explain **FIVE** ways of protecting yourself from identity theft. (5 marks)
- (c) Highlight **FIVE** activities that the operating system executes in relation to process management. (5 marks)
- (d) Highlight **THREE** ethical and **THREE** societal issues to the development and use of information technology.

(6 marks) (Total: 20 marks)

#### **QUESTION TWO**

- (a) (i) Explain **THREE** reasons why most threats to an organisation's information system are contributed by insiders. (3 marks)
  - (ii) State **FOUR** ways of preparing against insider threats. (4 marks)
- (b) Explain **THREE** techniques for eliciting user requirements during information systems development. (6 marks)
- (c) David Omondi is the owner of a Home Appliances shop at the Douala Branch. Details of items sold by him during the month of March 2023 were given below:

	A	В	C
1	ITEMS	BRAND	SALES PRICE
2	COLOUR TV	SAMSUNG	28000
3	WASHING MACHINE	LG	23000
4	REFRIDGERATOR	WHIRLPOOL	24000
5	WASHING MACHINE	LG	22000
б	COLOUR TV	WHIRLPOOL	35000
7	REFRIDGERATOR	SAMSUNG	25000
8	WASHING MACHINE	SAMSUNG	22000
9	COLOUR TV	LG	20000

#### **Required:**

Explain the steps required to prepare a pivot table with the above information to show the sales for each brand using a spreadsheet application such as LibreOffice Cac. Use proper cell references in your explanation.

(7 marks) (Total: 20 marks)

#### **OUESTION THREE**

QUEST (a)	-	<b>HREE</b> n the rationale behind applying the systems development life cycle (SDLC) during the dev ation systems.	velopment of (2 marks)
(b)	Outline <b>FOUR</b> methods for controlling unethical behaviour in ICT. (4		
(c)	Bidii C	Company has established that its information is being electronically eavesdropped through the	ir servers.
	Outline	e FOUR measures that the company could put in place to minimise this crime.	(4 marks)
(d)	Outline	e FOUR factors that could influence the choice of an information system.	(4 marks)
(e)	Explain	n THREE ways in which decision support systems are applied in an organisation. (Tota	(6 marks) I: 20 marks)
-	FION FO		(1, 1)
(a)	Give I	WO reasons why an operating system must evolve over time.	(4 marks)
(b)	Explain	n THREE impacts of e-commerce on customers.	(6 marks)
(c)	(i)	Explain <b>TWO</b> basic control measures that organisations could take to improve security devices that employees connect to an organisation's network.	on personal (4 marks)
	(ii)	Describe THREE Bring Your Own Device (BYOD) security best practices in an organisat	
		(Tota	(6 marks) I: 20 marks)
QUEST	<b>FION FI</b>	IVE	
(a)		ght <b>FIVE</b> objectives of an information's system design.	(5 marks)
(b)	Explain	n FIVE possible reasons why an organisation may decide to replace an information system.	(5 marks)
(c)	Enume	rate FIVE reasons why memory management is required in a computer system.	(5 marks)
(d)		e Ltd. is in the process of developing a new information system. A few managers are been the new information system.	reluctant to
	Requir	red:	
	(i)	Identify the most suitable method of system changeover to apply in the above scenario.	(1 mark)
	(ii)	Outline FOUR advantages associated with the method identified in (d) (i) above. (Tota	(4 marks) I: 20 marks)
QUEST (a)	every o	X Ltd. invited an ICT consultant to set up a computer network. The consultant linked all the other in the network. The nodes were connected to every other via a dedicated link so that is a point-to-point connection to the opposite node.	
	<b>Requi</b>	red: State the type of network topology on the above scenario.	(1 mark)
	(i)		. ,
	(ii)	Highlight <b>FIVE</b> benefits associated with the topology.	(5 marks)
(1)	0.41	<b>EQUID</b> 1 $(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1$	(4 1)

- (b) Outline FOUR benefits associated with the use of pivot tables. (4 marks)
- (c) Evaluate FIVE restoration procedures that could be used to recover lost data. (5 marks) (5 marks)
- (d) Describe FIVE features of time-sharing operating system.

### For Solutions/Answers WhatsApp: 0724 962 477

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(Total: 20 marks)

#### **QUESTION SEVEN**

(a) ABC Enterprises Limited has commenced the process of integrating its current business operations with an ERP.

#### **Required:**

(i)	Outline <b>TWO</b> ways the ABC Enterprises Limited could benefit from the integration.	(2 marks)

- (ii) Highlight **THREE** challenges that could arise with such integration. (3 marks)
- (b) Citing **FOUR** reasons, justify why it is necessary for an organisation to sign a contract for the maintenance of computer hardware and software. (4 marks)
- (c) Complete the table below with appropriate name of the feature used in respective iOS and Android mobile operating systems:

Feature	iOS	Android
Developer		
Default browser		

(4 marks)

(d) Explain SEVEN ethical issues associated with increased dependency on information systems. (7 marks) (Total: 20 marks)



#### **CS FOUNDATION LEVEL**

#### INFORMATION COMMUNICATION TECHNOLOGY

#### WEDNESDAY: 7 December 2022. Afternoon Paper.

#### Answer any FIVE questions. ALL questions carry equal marks. Do NOT write anything on this paper.

#### **QUESTION ONE**

(a)	State FOUR disadvantages of implementing information systems in an organisation. (4 marks)		
(b)	-	in FIVE computer hardware components that are required when establishing a multimedia merce.	platform for (5 marks)
(c)	Using	an example, explain how one would use "Goal seek" function in a business.	(5 marks)
(d)	Expla	in <b>THREE</b> problems that could be encountered when using a computerised accounting softwa	re. (6 marks) <b>: 20 marks)</b>
QUES (a)	<b>STION T</b> Outlin	<b>WO</b> the output products that result from the following systems development lifecycle stages:	1. 20 mai ksj
	(i)	System initiation. Requirement analysis. System integration. Systems testing.	(2 marks)
	(ii)	Requirement analysis.	(2 marks)
	(iii)	Systems design.	(2 marks)
	(iv)	System integration.	(2 marks)
	(v)	Systems testing.	(2 marks)
(b)	Expla	in <b>TWO</b> limitations of using "Internet of things" (IoT) technology.	(4 marks)
(c)	Expla	in THREE ways in which e-commerce could be used to optimise business opportunities in a	large hotel. (6 marks)
OUFS	STION T		l: 20 marks)
(a)	(i)	Differentiate between "Intranet" and "Extranet" as used in computer networks.	(2 marks)
	(ii)	Outline FOUR limitations of using "extranet" as a computer network in an organisation.	(4 marks)
(b)	Organ	isations use different types of information systems.	
	Requi		
	(i)	List <b>THREE</b> types of information systems used by management.	(3 marks)
	(ii)	State the input, processes and output of information systems used by management.	(3 marks)
	(iii)	Explain <b>FOUR</b> enterprise information system characteristics that support unstructur making in organisations.	red decision (4 marks)
(c) Veronica stored word processing files in a flash disk when working from a home desirealised that the files could no longer open at her place of work.			ater. She has
	Requi	ired.	

Suggest FOUR reasons why some files may not open despite being visible on the flash disk. (4 marks) (Total: 20 marks)

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Time Allowed: 3 hours.

#### **QUESTION FOUR**

(a) Differentiate between an "accounting package" and a "spreadsheet" based on the following features:

(u)	Differentiate services an accounting parallel and a spreadsheet subset on the isnowing r	
	(i) Report generation.	(2 marks)
	(ii) Audit trail.	(2 marks)
(b)	Giving an example, explain the purpose of a mobile browser.	(3 marks)
(c)	Explain how cloud computing supports e-commerce operations.	(4 marks)
(d)	Explain FOUR social issues that may arise from the use of information systems.	(4 marks)
(e)	Assess FIVE ways in which general ICT controls ensure the reliability of data general systems.	ated by information (5 marks) (Total: 20 marks)
QUES' (a)	<b>FION FIVE</b> List <b>FOUR</b> types of software used to enable e-commerce business.	(4 marks)
(b)	Highlight <b>FOUR</b> types of skills that a system analyst is required to have in order to effectiv tasks.	ely carry out his/her (4 marks)
(c)	Assess FOUR methods of controlling unethical behaviour in ICT.	(4 marks)
(d)	Kibao Masetu, a system analyst, used the prototyping method to develop an information syst	em for Petoka Ltd.
	Explain FOUR advantages of using this method.	(8 marks) (Total: 20 marks)
QUES (a)	TION SIX       (i)       Highlight TWO features of a presentation program that are not available in program.	a word processing tonic.
	(ii) Explain <b>THREE</b> contexts in which one would need to use a presentation program processing program.	n instead of a word (3 marks)
(b)	Enumerate FIVE reasons why an organisation might opt to use subcontractors for its informa-	ation system needs. (5 marks)
(c)	Outline FOUR benefits of conducting a feasibility study during systems development.	(4 marks)
(d)	Explain <b>THREE</b> factors to consider when choosing an operating system for a computer.	(6 marks) (Total: 20 marks)
QUES (a)	<b>FION SEVEN</b> Explain <b>TWO</b> characteristics of a "peer to peer" computer network.	(2 marks)
(b)	Highlight <b>TWO</b> legal issues and two ethical issues that may arise by use of information syst chain-based supermarket.	tems in a large-scale (4 marks)
(c)	Suggest TWO strategies that a country could adopt to minimise the digital divide.	(4 marks)
(d)	Simon has established an accounting firm in a busy town and employed seven assistants. space is not enough to accommodate all the staff and he has approached you for assistance.	However, the office
	Required: (i) Explain THREE modern ICT technologies that Simon could adopt to maproductivity despite space constraints.	aximise employees' (6 marks)

(ii) Explain TWO possible disadvantages that Simon could face in adopting any of the technologies in (d) (i) above. (4 marks)
 (Total: 20 marks)

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#### **CS FOUNDATION LEVEL**

#### INFORMATION COMMUNICATION TECHNOLOGY

#### WEDNESDAY: 3 August 2022. Afternoon paper.

#### Time Allowed: 3 hours.

(4 marks)

#### Answer any FIVE questions. ALL questions carry equal marks. Do NOT write anything on this paper.

#### **QUESTION ONE**

(	a)	Suggest the ethical	issues resulting	from each of the	following tec	hnological trends:
Ľ			issues resulting		romo mig roo	miere Brear a email

	(i)	Doubling of computing power every eighteen (18) months.	(2 marks)		
	(ii)	Rapidly declining data storage costs.	(2 marks)		
	(iii)	Advances in networking and the internet.	(2 marks)		
(b)	Outline	e four characteristics of an open system.	(4 marks)		
(c)	Descrit	be five moral dimensions of information systems.	(5 marks)		
(d)	Outline	e three measurers that you could include in your business continuity plan.	(3 marks)		
(e)	Explain	n the purpose of HLOOKUP as used in spreadsheet applications.	(2 marks)		
OUES	τιον τι		(Total: 20 marks)		
QUES	QUESTION TWO				

#### ION TWO Giving an example in each case, differentiate between technological convergence and digital convergence as used in (a) information technology communication. XYZ Company Ltd. intends to develop an information system for its operations. (b)

Outline three strategies that the board could put in place to ensure the success of this project. (3 marks)

A manager in an entertaining industry intends to use data driven decision support system to design a new product. (c)

	Outlin	e three characteristics that the system should possess.	(3 marks)
(d)	Sugge	st how a business could overcome each of the following e-commerce challenges.	
	(i)	Payment fraud	(2 marks)

	(1)	Payment fraud.	(2 marks)
	(ii)	Lack of visitors to the business website.	(2 marks)
	(iii)	Theft of customer information.	(2 marks)
(e)	Using	an illustration, explain a pivot table as used in spreadsheet applications. (Tot	(4 marks) al: 20 marks)
QUES (a)	TION T Formu	HREE late four questions that would enable you to conduct stakeholder analysis in system development.	(4 marks)
(b)	Explai	n the bookmark feature in the context of the internet browsing.	(2 marks)
(c)	Identif	y the type of cell referencing used in the spreadsheet expressions below:	
	(i)	=RANK(\$C\$3:\$A\$10,0)	(1 mark)

(ii)	=SUM(A\$3 : A12)	(1 mark)
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(d)	Differ	entiate between sorting and filtering as used in worksheet data management.	(2 marks)				
(e)		Differentiate between proofreading and formatting a document as used in word processing. (2 marks)					
(f)	A comprehensive backup plan is an essential tool for information security for the entire organisation. Not only should the data on the corporate servers be backed up, but individual computers used throughout the organisation should also be backed up.						
	With r	eference to the above statement, discuss three components of a good backup plan.	(6 marks)				
(g)	Explai	n each of the following terms as used in internet:					
	(i)	Cookies.	(1 mark)				
	(ii)	Blog. (Tot	(1 mark) al: 20 marks)				
-	TION F						
(a)	Citing	three reasons, explain the importance of requirements gathering in system development.	(3 marks)				
(b)	Justify	why an information system is considered as an intellectual property.	(4 marks)				
(c)	Explai	n the following features of a presentation package:					
	(i)	Transition effects.	(1 mark)				
	(ii)	Speaker notes.	(1 mark)				
	(iii)	Templates.	(1 mark)				
(d)	The or	ganisation where you work intends to set up a local area network.	, co.xe				
	Advis	e your management team on three hardware components required to accomplish the above task.	(6 marksonico.te				
(e)	Outlin	e four factors that could be used when selecting the best software development methodology for a sp	becific project.				
		(Tot	(4 marks) al: 20 marks)				
QUES (a)	<b>TION F</b> Explai	IVE In six reasons that would cause an information system project to fail during the implementation stage	. (6 marks)				
(b)	In eac	h of the following, explain how a spreadsheet program is used:					
	(i)	Accounting.	(2 marks)				
	(ii)	Forecasting.	(2 marks)				
(c)	Descri	be each of the following ethical issues in regard to computer technology:					
	(i)	Trade marks.	(2 marks)				
	(ii)	Patent rights.	(2 marks)				
(d)	Most o	organisations align their information systems functions to their business strategic plan.					
	Explai	n three benefits of this alignment. (Tot	(6 marks) al: 20 marks)				

#### **QUESTION SIX**

(a) An insurance company has decided that it no longer requires a physical Head Office. Its strategic aim is to become a virtual organisation. The company's auditors have concerns that information held by the virtual company would lack security.

#### **Required:**

Describe three measures that could be adopted to ensure the information in the insurance company remain secure. (6 marks)

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(b)	Highli	ght three challenges of prosecuting ICT cases in court.	(3 marks)
(c)	Explai	in four application areas of cloud computing technology in a governance/accounting services firm.	(4 marks)
(d)	Identif	fy five major management challenges to building and implementing information systems within an or	ganisation. (5 marks)
(e)	Outline	e two limitations of a touch screen as an input device. (Tot:	(2 marks) al: 20 marks)
QUES (a)		EVEN in three legal issues involved when a person who is a resident in Kenya or your country wants to p d for sale in Japan via a server in Hungary. Assume he is doing online purchase through e-Commerce	
(b)	John M compu	Mbululu intends to implement cloud computing in his organisation but he has several concerns ating.	s about cloud
	Sugges	st three possible concerns for John Mbululu.	(3 marks)
(c)	One te	cchnique for gathering requirements during system development is the use of workshops.	
	Discus	ss two advantages and two disadvantages of using workshops for requirements gathering.	(4 marks)
(d)	(i)	To minimise resistance during system changeover, it is always necessary to involve users.	
		Identify four different ways of involving users in the system development process.	(4 marks)
	(ii)	Explain four approaches used in system changeover.	(4 marks)
	(iii)	Explain the significance of an information centre in an organisation. (Tota	(2 marks) al: 20 marks)



#### **CS FOUNDATION LEVEL**

### INFORMATION COMMUNICATION TECHNOLOGY

WED	NESDA	Y: 6 April 2022. Afternoon paper.	Time Allowed: 3 hours.		
Answe	er any F	IVE questions. ALL questions carry equal marks. Do NOT write anything on this	s paper.		
QUES (a)	<b>TION C</b> Expla	<b>DNE</b> in five factors to consider when selecting a spreadsheet software.	(5 marks)		
(b)	Expla	in the following terms as applied to data security in e-commerce.			
	(i)	Privacy.	(2 marks)		
	(ii)	Integrity.	(2 marks)		
	(iii)	Authentication.	(2 marks)		
	(iv)	Non-repudiation.	(2 marks)		
(c)	(i)	Outline two advantages of a professional code of ethics.	(2 marks) not		
	(ii)	Highlight two drawbacks of a professional code of ethics.	(2 marks)		
(d)	Exam	ine three impacts of the internet on the education sector.	(3 marks) (Total: 20 marks)		
QUES (a)	TION TWO ABC Ltd. has opted to adopt a decision support system in the restructure of its business processes.				
	<b>Requ</b> (i)	ired: State three moral dimensions the company would consider from this move.	(3 marks)		
	(ii)	Outline three legal issues the company is likely to consider from this move.	(3 marks)		
(b)	Outlin	e four possible causes of ICT project failure during system implementation.	(4 marks)		
(c)	(i)	Explain the term "requirement elicitation" in relation to software development.	(2 marks)		
	(ii)	Explain two "requirements Elicitation" techniques.	(4 marks)		
(d)	Highl	ght four features of a word processing of application package.	(4 marks) (Total: 20 marks)		
QUES (a)	TION T Discu	<b>HREE</b> ss six reasons why a computer operating system is considered as a resource manager.	(6 marks)		
(b)	It is possible to lose a laptop, a mobile phone or a flash disk.				
	Discu	ss four ways you could protect the data in your device to minimise data breach.	(8 marks)		
(c)	The T	angaza County Government intends to establish information centres.			
	Expla	in two services that are likely to be offered at the centres.	(4 marks)		
(d)	State	two challenges of using computerised accounting software in an organisation.	(2 marks) (Total: 20 marks)		
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QUES	STION FOUR	
(a)	Discuss the importance of information security policies.	(5 marks)
(b)	Explain four reasons why an organisation may prefer to install a peer to peer networking model.	(8 marks)
(c)	Outline seven indicators of a successful information system.	(7 marks) Fotal: 20 marks)
QUES	STION FIVE	
(a)	(i) Explain the term "smart home" as used in the world of technology.	(1 mark)
	(ii) Describe the importance of the "Internet of Things" in the smart home.	(4 marks)
(b)	Explain three reasons why organisations pursue business process integration.	(6 marks)
(c)	E-commerce customers should be able to find the product they are looking for quickly.	
	Identify three best practice features for e-commerce websites.	(3 marks)
(d)	Examine the significance of carrying out stakeholder analysis before undertaking an information	systems project. (6 marks) Fotal: 20 marks)
QUES	STION SIX	
(a)	Discuss three benefits that are provided by mobile devices and applications for health care professionals	. (6 marks)
(b)	(i) Explain the term "Uniform Resource Locator (URL)".	(2 marks)
	(ii) Using an example, explain the functions of each of the three key parts of a URL.	
	(ii) Using an example, explain the functions of each of the unce key parts of a OKE.	(6 marks)
(c)	Assess three benefits of data backup and recovery procedures in a business.	(6 marks) (6 marks) Fotal: 20 marks)
	Assess three benefits of data backup and recovery procedures in a business.	(6 marks) Fotal: 20 marks) man beings live,
QUES	Assess three benefits of data backup and recovery procedures in a business. (TION SEVEN The Internet of Things (IoT) has grown very rapidly and emerged to be a large part of how hur communicate and conduct business. While web-enabled devices are turning our global rights into a g	(6 marks) Fotal: 20 marks) man beings live,
QUES	Assess three benefits of data backup and recovery procedures in a business. (7) <b>STION SEVEN</b> The Internet of Things (IoT) has grown very rapidly and emerged to be a large part of how hu communicate and conduct business. While web-enabled devices are turning our global rights into a g operating area, the implementation of IoT has several challenges.	(6 marks) Fotal: 20 marks) man beings live, rreat switched-on

- (ii) For each of the identified challenges in (c) (i) above, suggest a suitable solution that businesses could use to deal with it. (3 marks)
- Summarise two common challenges encountered while using the system development life cycle (SDLC) model. (d) (2 marks) (Total: 20 marks)

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#### **CS FOUNDATION LEVEL**

#### INFORMATION COMMUNICATION TECHNOLOGY

FRIDAY: 17 December 2021.		December 2021. Ti	Time Allowed: 3 hours.		
Answ	er any F	IVE questions. Al	LL questions carry equal marks.		
-	STION O				
(a)	(i)	Distinguish between the "e-wallets" and "bank transfers" e-commerce payme	· · · /		
	(ii)	In an era of identity theft and impersonation, security is among the primary from engaging in e-commerce.	concerns that restrains consumers		
		With respect to the above statement, examine three critical functions that are transaction (SET) system.	e performed by a secure electronic (6 marks)		
(b)	(i)	Explain five benefits of a strategic information system to a business.	(5 marks)		
	(ii)	Highlight five benefits of aligning an organisation's information communibusiness strategy.	(5 marks) ( <b>Total: 20 marks</b> )		
QUES (a)	STION T Discus	WO ss "sales and marketing systems" from a functional perspective.	(5 marks)		
(b)	Explai	in five moral dimensions of the information age in the context of information sys	tems. (5 marks)		
(c)	Alpha	Limited is in the process of automating its operations.			
	State f	four types of office automation systems that the company should adopt.	(4 marks)		
(d)	ABC	Company intends to undertake an information systems project.			
	Outlin	e three challenges that the company is likely to face.	(3 marks)		
(e)	Explai	in three goals of a transaction processing system to an organisation.	(3 marks) (Total: 20 marks)		
	STION T				
(a)	(i)	Outline three models used in classifying e-commerce applications.	(3 marks)		
	(ii)	Explain two security challenges encountered in digital marketing of e-comme	rce. (4 marks)		
(b)	Most o	companies have embraced the use of cloud technology though they are facing cha	allenges in its use.		
	Explai	in three such challenges.	(3 marks)		
(c)	Define	e each of the following terms as used in systems theory.			
	(i)	Functional decomposition.	(2 marks)		
	(ii)	Functional cohesion.	(2 marks)		
	(iii)	Feed-forward.	(2 marks)		
(d)	Descri	be four features of systems approach to information systems.	(4 marks) (Total: 20 marks)		
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QUESTION FOUR(a)Highlight four characteristics of Internet of Things (IoT).(4 marks)						
	pose four duties of an information centre in an organisation.	(4 marks)				
(c) AB	C Transport company has opted to train its users before a new system is implemented.					
Su	ggest four benefits of training users before implementing a new information system.	(4 marks)				
(d) Ou	tline four advantages of using joint application design (JAD) technique in the design of an information syste					
(e) (i)	Define "cell referencing" in the context of spreadsheet applications.	(4 marks) (2 marks)				
(ii)		(2 marks) <b>20 marks)</b>				
QUESTION						
(a) De	scribe five challenges associated with the use of internet.	(5 marks)				
(b) (i)	Define the term "system" in the context of information systems.	(1 mark)				
(ii)	Distinguish between "physical systems" and "abstract systems".	(2 marks)				
(c) (i)	Describe the job of a Systems Analyst.	(1 mark)				
(ii)	Outline five tasks performed by a Systems Analyst.	(5 marks)				

(d) Study the worksheet given below and answer the questions that follow:

G1	▼	# 5	C	sum	IF(A1:F1,		ng 1 5 minu minu migjimini - 20 1 minu m
4	A	B	c	D.	E	F	Ģ
1	2	8	10	10	15	15	
2							

	Require (i)	d: Interpret the function displayed in cell G1.	(2 marks)
	(ii)	State the value to be displayed in cell G1 on execution of the function.	(2 marks)
(e)	Veronic	a would like to display the progress of her project to a panel of examiners using a preser	tation application.
	Outline	two ways in which she could display her presentation in slide show mode.	(2 marks) (Total: 20 marks)
<b>QUEST</b> (a)	TION SIX Evaluate	the impact of the internet on the following competitive forces:	
	(i)	Threat of new entrants.	(2 marks)
	(ii)	Suppliers' bargaining power.	(2 marks)
	(iii)	Customers' bargaining power.	(2 marks)
	(iv)	Substitute products or services.	(2 marks)
(b)	Outline	eight activities carried out during systems analysis.	(8 marks)
(c)	Using a	n example, demonstrate how you would use a formula to link data between two workshe	ets. (4 marks) (Total: 20 marks)
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#### **QUESTION SEVEN**

(a)	Describe each of the following types of information systems as used in organisations:						
	(i)	Transaction processing system.	(2 marks)				
	(ii)	Management reporting system.	(2 marks)				
	(iii)	Decision support system.	(2 marks)				
(b)	XYZ C	ompany Ltd. intends to implement a new information system.					
	Explain	three organisational factors that should be considered to ensure success of the system.	(6 marks)				
(c)	Explain three types of applications of Internet of Things (IoT) in the government sector. (6 mark						
(d)	Outline	two features of a word processing program.	(2 marks) (Total: 20 marks)				

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#### **CS FOUNDATION LEVEL**

#### PILOT PAPER

#### INFORMATION COMMUNICATION TECHNOLOGY

December 2021.

#### Answer any FIVE questions.

#### Time Allowed: 3 hours.

ALL questions carry equal marks.

#### **QUESTION ONE**

#### Consider the following data that exists in a spreadsheet format: (a)

	А	В	С	D	E	F
1	ITEM NO	TITLE	SUPPLIED	COVER PRICE	DISCOUNT	EXTENDED
2	1	Shaka	65	679.00	135.8	
3	2	Science II	550	110.00	22	
4	3	P Maths	800	160.00	32	
5	4	Our World	320	350.000	70	
6	5	Maths III	430	640.00	128	
7	6	History	755	395	79	
8	7	History II	200	1500	300	
9	8	P History	490	900.00	180	
10	9	War IT	540	1150.0	230	
11	10	Daily Star	7 <del>9</del>	420.00	84	
12	11	The People	60	750	150	

#### **Required:**

- Explain how you would format the column "COVER PRICE" to display values on the right-hand side (i) with two decimal places. (2 marks)
- (ii) The "DISCOUNT" column needs to be calculated to display 20% discount if the supplied item cost Sh. 650 or higher, and 15% discount if an item costs less than Sh. 650. Explain how to achieve this.

(2 marks)

- (iii) The "EXTENDED" column needs to contain the cost of the item purchases after the discounts have been calculated. Explain how to achieve this (2 marks)
- By stating an example in each case, explain the following cloud computing models: (b)

	(i)	IaaS.	(2 marks)	
	(ii)	SaaS.	(2 marks)	
(c)	Discu	ass the process of handling an interrupt that occurs during the execution of a pro	ogram. (4 marks)	
(d)	Expl	ain the following terms as used in operating systems:		
	(i)	Thread.	(2 marks)	
	(ii)	Internal fragmentation.	(2 marks)	
	(iii)	Shell.	(2 marks) (Total: 20 marks)	
For Solutions/Answers WhatsApp: 0724 962 477CA16 & CS Out of 3				

#### **QUESTION TWO**

Patrick Baraza is seeking to automate the operations of his restaurant. For this purpose, he wishes to acquire computer hardware and software. He has come to you for advise regarding several aspects of this acquisition.

#### **Required:**

(a)	Explain why it would be advantageous for Patrick Baraza to build rather than buy the computer sof					
(b)	Distinguish between the following sets of terms as they are applied to computer hardware:	(3 marks)				
	(i) PATA (IDE) and SATA hard disk interfaces.	(2 marks)				
	(ii) On-board devices and peripheral devices.	(2 marks)				
(c)	Describe the function of any three input/output ports.	(3 marks)				
(d)	Discuss the factors that Baraza should consider before purchasing software.	(5 marks)				
(e)	Discuss why Patrick Baraza will need to secure his computer network. (Total:	(5 marks) <b>20 marks</b> )				
QUEST (a)	<b>FION THREE</b> Discuss any four differences between first and second generation of programming languages.	(4 marks)				
(b)	Discuss three basic types of information systems.	(6 marks)				
(c)	Describe the challenges that organisations can face when implementing information systems.	(5 marks)				
(d)	List two internet service providers in your country and discuss the criteria that would be used to					
QUEST	FION FOUR	www.che				
(a)	Explain the five components of an information system.	(5 marks)				
(b)	Discuss the process of gathering requirements for the purpose of developing an information system. (5 marks)					
(c)						
QUEST (a)	FION FIVE Explain the required qualities of each of the following people in the development of computer syste	ems:				
	(i) System analyst.	(4 marks)				
	(ii) Systems designer.	(4 marks)				
(b)	Mobile applications have in the recent years become very common. With reference to this, of following:	explain the				
	(i) Bluetooth.	(2 marks)				
	(ii) WIFI.	(2 marks)				
	(iii) VOIP.	(2 marks)				
(c)	Identify any four common problems the developers of mobile applications face.	(4 marks)				
(d)	List two mobile operating systems. (Total:	(2 marks) <b>20 marks</b> )				

#### **QUESTION SIX**

(a) Jipambe Beauty and Cosmetics has been operating since year 2013 and have expanded their business operations to the major cities where they have a chain of stores along major streets. The business manager is considering extending the business to an e-commerce platform.

#### **Required:**

- Explain the business opportunities that could arise as a result of implementing an e-commerce venture. (i) (4 marks)
- (ii) Discuss the factors that Jipambe Beauty and Cosmetics could consider when designing an e-payment system. (5 marks)

- (iii) Describe any three e-governance models. (6 marks)
- (b) Discuss any five ethical principles for judging conduct that could be used in conjunction with an ethical analysis in the use of ICT. (5 marks)

#### (Total: 20 marks)

#### **QUESTION SEVEN**

(a)	Discuss <b>FOUR</b> purposes of maintaining a backup in an organisation.		
(b)	Explain the following types of backups:		
	(i)	Full backup	(2 marks)
	(ii)	Incremental backup	(2 marks)
	(iii)	Differential backup.	(2 marks)
(c)	Disc	cuss four roles of accounting information systems to organisations.	(4 marks)
(d)	Explain the following computer data terms:		
	(i)	Byte.	(2 marks)
	(ii)	File.	(2 marks)
	(iii)	Database.	(2 marks)
			(Total: 20 marks)