

CS FOUNDATION LEVEL

INFORMATION COMMUNICATION TECHNOLOGY

THURSDAY: 24 April 2025. Afternoon Paper.

Time Allowed: 3 hours.

This paper consists of seven (7) questions. Answer any FIVE questions. ALL questions carry equal marks. Do NOT write anything on this paper.

QUESTION ONE

- (a) Explain the following features of the fifth-generation computers:
 - (i) Artificial intelligence (AI).

(2 marks)

(ii) Parallel processing.

(2 marks)

(iii) Quantum computing.

(2 marks)

(b) Outline **FOUR** input devices used in a smartphone.

- (4 marks)
- (c) Ping Ltd., a social media company in Kenya collects user data to improve targeted advertisements. However, it sells the data to third parties without informing the users.

With reference to the above scenario, examine **FIVE** ethical principles violated by Ping Ltd. in its handling of user data. (10 marks)

(Total: 20 marks)

OUESTION TWO

(a) Distinguish between "embedded computers" and "integrated computers".

- (4 marks)
- (b) Discuss **FOUR** techniques used to measure the effectiveness of system maintenance.
- (8 marks)
- (c) Examine **FOUR** roles of Integrated Development Environments (IDEs) in Information Communication Technology (ICT) development. (8 marks)

(Total: 20 marks)

OUESTION THREE

- (a) Differentiate between "indexed sequential files organisation" and "direct file organisation".
- (4 marks)

(b) Highlight **FIVE** factors to consider when selecting a transmission media.

- (5 marks)
- (c) Opiyo Odoyo wishes to create a presentation for his company's annual general meeting (AGM). Opiyo Odoyo has never created a presentation before using PowerPoint application.
 - Explain **THREE** ways that Opiyo Odoyo could use to create a new presentation in PowerPoint.
- (6 marks)
- (d) Summarise **FIVE** negative consequences of instituting information systems in an organisation.

(5 marks) (Total: 20 marks)

QUEST (a)	T ION FO Explain	DUR the following validation terms:	
	(i)	Presence check.	(2 marks)
	(ii)	Range check.	(2 marks)
	(iii)	Data type check.	(2 marks)
(b)	Outline	SIX roles of search engines.	(6 marks)
(c)	targetin Health	Mission Hospital, located in Western Kenya, offers both curative and preventive hea g elderly people. During the integration of Maliki Health System with the recently Authority (SHA) system, the hospital's information system was hacked, leading to expression.	introduced Social
	Requir Examin	ed: e FOUR legal obligations that the hospital has towards its clients.	(8 marks) (Total: 20 marks)
QUEST (a)	TION FITOURING	VE TWO effects of each of the cases below:	
,	(i)	Low hanging bulbs in a computer laboratory.	(2 marks)
	(ii)	Having taps and sinks in the computer laboratory.	(2 marks)
(b)	Explain	the following concepts in system theory:	
	(i)	Equifinality.	(2 marks)
	(ii)	the following concepts in system theory: Equifinality. Entropy.	(2 marks)
(c)	Examin	e SIX roles of the Internet of Things (IoT) in modern networks.	(12 marks) (Total: 20 marks)
QUEST (a)	TION SIX Describ	X e FOUR applications of management information systems (MIS) in enhancing ope	rational efficiency. (8 marks)
(b)		egards to Accounting Information Systems (AIS), discuss SIX roles that encryption g financial transactions.	n of data plays in (12 marks) (Total: 20 marks)
QUEST (a)	TION SE	VEN uish between "computer onboard devices" and "peripheral devices".	(2 marks)
(b)	_	FOUR components of the task bar.	(8 marks)
(c)	(i)	Explain the term "WLAN" as used in relation to computer networks.	(2 marks)
	(ii)	Discuss FOUR features of WLANs.	(8 marks) (Total: 20 marks)



CS FOUNDATION LEVEL

INFORMATION COMMUNICATION TECHNOLOGY

WEDNESDAY: 4 December 2024. Afternoon Paper.

This paper has seven (7) questions. Answer any FIVE questions. ALL questions carry equal marks. Do NOT write anything on this paper.

OUESTION ONE

- (a) Highlight **FOUR** ways of recovering data lost through accidental erasure. (4 marks)
- (b) Describe **FOUR** activities that are carried out during information system implementation phase. (4 marks)
- (c) Outline **SIX** ways in which the internet can be used in banking and finance. (6 marks)
- (d) Examine **SIX** challenges businesses face when integrating enterprise applications for business process integration.

(6 marks) (Total: 20 marks)

Time Allowed: 3 hours.

OUESTION TWO

- (a) Explain **TWO** 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 **FOUR** measures that could be used to minimise unethical Information Communication Technology (ICT) practices in an organisation. (4 marks)
- (d) Discuss **FOUR** steps carried out during system requirements elicitation process. (8 marks) (**Total: 20 marks**)

QUESTION THREE

(a) Outline **FOUR** potential risks of using outdated software.

(4 marks)

- (b) Highlight **FOUR** environmental impacts of Information Communication Technology (ICT) in business. (4 marks)
- (c) Discuss **THREE** roles of source document integration in computerised accounting systems. (6 marks)
- (d) Examine **SIX** reasons why an operating system is deemed crucial for the proper functioning of a computer system. (6 marks)

(Total: 20 marks)

OUESTION FOUR

- (a) 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)	Curre	Currently, the use of wireless data transmission media has increased. However, it still faces many challenges.			
	Evalu	ate THREE such challenges. (Total	(6 marks)		
QUES (a)	TION F	IVE in THREE benefits that would accrue to a business as a result of using mobile applications.	(3 marks)		
	-				
(b)	Expia	in FIVE reasons why a non- impact printer may be better than an impact printer in an office e	(5 marks)		
(c)	One o	f the common e-commerce security issues is lack of trust in the privacy and e-commerce security	y.		
	Expla	in THREE methods attackers use to compromise e-commerce security.	(6 marks)		
(d)	Descr	ibe THREE maintenance utilities in an operating system. (Total	(6 marks)		
QUES (a)	TION S Outlin	IX le 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)	Identi	fy FOUR features to look for when selecting an accounting software for use in an organisation.	(4 marks)		
(c)	Highli	ght FOUR potential benefits of implementing Internet of Everything (IoE) in businesses.	(4 marks)		
(d)	Exam	ine FOUR benefits of conducting a post-implementation review (PIR) of an information sys	tem project (4 marks) 1: 20 marks)		
QUES (a)	TION S	EVEN the FOUR features that should be considered when choosing a presentation software.	(4 marks)		
(b)	Distin	guish between "incremental backup" and "differential backup".	(4 marks)		
(c)	Maure	een Bett was required to outline system specifications to be used in a proposed information syste	m.		
	Descr	ibe THREE typical contents of the specification document.	(6 marks)		
(d)	Citing		(6 marks)		
(d)	Citing				



CS FOUNDATION LEVEL

INFORMATION COMMUNICATION TECHNOLOGY

WEDNESDAY: 21 August 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.

QUEST	TION ONE	
(a)	Explain the function of an operating system in job accounting.	(2 marks)
(b)	Highlight THREE ways in which operating systems authenticate users.	(3 marks)
(c)	Outline FOUR functions of user documentation during the development of an information system.	(4 marks)
(d)	Enumerate FIVE factors to consider when designing an information system output.	(5 marks)
(e)	Information Communication Technology (ICT) has heightened ethical issues and exerted pressure of social arrangements.	on existing

social arrangements.

Discuss **THREE** technological trends that are responsible for the above issues.

(6 marks) (Total: 20 marks)

OUESTION TWO

(a) Explain **TWO** benefits of using pivot tables in a spreadsheet software.

(4 marks)

(b) Outline **FOUR** applications of mobile computing in the financial sector.

(4 marks)

(c) Describe **FOUR** ways in which the Internet of Things (IoT) impacts our daily lives.

(4 marks)

(d) Examine **FOUR** ways on how an organisation should handle sensitive data in order to ensure confidentiality, prevent unauthorised access and data misuse. (8 marks)

(Total: 20 marks)

OUESTION THREE

(a) Highlight **THREE** important factors to consider when choosing a network topology.

(3 marks)

(b) An organisation processes and stores large volumes of data in an information system.

Explain **THREE** data security goals that the organisation might aim to achieve in the above scenario.

(3 marks)

(c) (i) Examine **TWO** challenges of e-commerce infrastructure.

(4 marks)

(ii) Describe **FOUR** 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 using spreadsheet solver.

(6 marks)

QUESTION FOUR (a) Explain TWO circumstances that would necessiate an organisation to use the outsourcing method to acquire a information system. (4 marks)
(b) Highlight FOUR limitations of cloud computing. (4 marks
(c) Explain THREE circumstances that could necessitate setting up of a Local Area Network (LAN) in a organisation. (6 marks
(d) Highlight SIX measures that could be used to minimise unethical ICT practices in an organisation. (6 marks (Total: 20 marks)
QUESTION FIVE
(a) State TWO 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 developmen (3 marks)
(c) Examine THREE 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 "integrated software" (6 marks
(e) Examine THREE factors that could be used to determine the capabilities of a data transmission medium (6 marks
(Total: 20 marks
QUESTION SIX
(a) Outline THREE characteristics of mobile cloud computing application. (3 marks
(b) Explain FOUR services offered by an Internet Service Provider (ISP). (4 marks
(c) Highlight FOUR circumstances that would necessitate an organisation to use mail merge feature in a wor processing program. (4 marks
(d) List FOUR disadvantages of prototyping in systems analysis and design. (4 marks
(e) Describe FIVE major activities of an operating system with regard to process management. (5 marks

- (a) Discuss **THREE** activities involved during information system requirements elicitation process. (6 marks)
- (b) Outline **FOUR** activities of an operating system in regard to management of secondary storage. (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 issues that must be dealt with on an individual, social, and political levels.

Discuss THREE moral dimensions raised by these issues.	(6 marks)
	(Total: 20 marks)



CS FOUNDATION LEVEL

INFORMATION COMMUNICATION TECHNOLOGY

WEDNESDAY: 24 April 2024. Afternoon Paper.

This paper has seven (7) questions. Answer any FIVE questions. ALL questions carry equal marks. Do NOT write

OUESTION ONE

anything on this paper.

(a) List **TWO** limitations of mobile computing.

(2 marks)

Time Allowed: 3 hours.

(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 implementation of robust data security controls.

Explain **FOUR** types of data security controls.

(8 marks)

(d) Quick Response (QR) codes have gained significant popularity in recent years, becoming a widely adopted technology for various purposes.

Outline **FOUR** reasons for the popularity of QR codes.

(4 marks) (Total: 20 marks)

OUESTION TWO

(a) The emergence of mobile communication applications has revolutionised how people communicate and interact with each other.

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 **THREE** ethical challenges the company might face while using this technology.

(6 marks)

(Total: 20 marks)

OUESTION THREE

(a) 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 crime rate in organisations. (6 marks)

- (b) Explain **THREE** circumstances that would necessitate the use of pilot approach during system change over. (6 marks)
- (c) Explain the following functions as used in spreadsheet application:

(i) SUMIF. (2 marks)

(ii) PMT. (2 marks)

(d)	An organisation installed an inhouse developed application software to support their operations.	
	State FOUR advantages they would gain by using this software. (Total:	(4 marks) 20 marks)
QUEST (a)	TION FOUR Describe TWO reasons that would necessitate the use of water mark on a word processing	document.
(b)	Explain FOUR circumstances when batch operating system would be most appropriate.	(4 marks)
(c)	Explain THREE types of feasibility studies that are conducted during the development of an information	on system. (6 marks)
(d)	Highlight SIX challenges of e-commerce in developing countries. (Total:	(6 marks) 20 marks)
QUEST	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 THREE methods that could be used to prevent social engineering related attacks.	(6 marks)
(d)	410	nt method. (4 marks) 20 marks)
QUEST (a)	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; spread accounting software.	sheets and
	Evaluate THREE reasons why businesses prefer using accounting softwares.	(6 marks)
(d)	Explain THREE differences between "word processing software" and "desktop publishing software". (Total:	(6 marks) 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 impleme information systems. These concerns are related to ethical, social, political and moral issues that aris 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. (Total:	(4 marks) 20 marks)



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.

QUESTION ONE

(a) Highlight **TWO** benefits of linking worksheets in a spreadsheet program. (2 marks)

(b) Outline **FOUR** qualities of a good system documentation. (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)

OUESTION TWO

(a) Citing **TWO** examples, explain the term "mobile operating system". (4 marks)

(b) Using an example, explain the use of the "IF" function in a spreadsheet application. (4 marks)

(c) Explain **THREE** ways in which a transaction processing system helps in improving operations of an organisation. (6 marks)

(d) Analyse **THREE** factors that should be considered when creating a computer network. (6 marks)

(Total: 20 marks)

OUESTION THREE

(a) Differentiate between pilot implementation methodology and parallel information systems implementation methodologies. (2 marks)

(b) Highlight **FOUR** benefits of a network operating system to an organisation. (4 marks)

(c) Outline **FOUR** roles of an Information Systems Analyst. (4 marks)

(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)

QUEST (a)	FION FOUR Explain TWO 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) 20 marks)
QUEST (a)	FION FIVE Examine TWO obstacles/challenges that could be faced by organisations when implementing a minformation system.	nanagement (4 marks)
(b)	With respect to questionnaires, distinguish between open ended questions and closed ended questions data collection.	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) 20 marks)
QUEST	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) 20 marks)
-	TION SEVEN	
(a)	Highlight TWO 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 ensur	e improved

(8 marks)

(Total: 20 marks)

productivity in a functional perspective.



CS FOUNDATION LEVEL

INFORMATION COMMUNICATION TECHNOLOGY

WEDNESDAY: 23 August 2023. 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) Explain how the following elements affect the processing power of a computer:

Highlight FOUR salient features of a Computerised Accounting Software (CAS).

- (i) Cache memory. (2 marks)
- (ii) Data bus. (2 marks)
- (iii) Type of processor. (2 marks)
- (b) List **FOUR** limitations of star network topology. (4 marks)
- (d) Outline SIX advantages of a pivot table report. (6 marks)

(Total: 20 marks)

QUESTION TWO

(c)

- (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. (5 marks)



- (c) Examine **THREE** ways in which an operating system provides data security in a computer system. (6 marks)
- (d) Explain the impact of **THREE** technological trends that pose ethical challenges to organisations. (6 marks)

(Total: 20 marks)

OUESTION THREE

- (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)
- (c) Assess **THREE** information system vulnerabilities and their respective countermeasures. (6 marks)

(Total: 20 marks)

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QUEST (a)	TION FOUR 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). (To	(6 marks) otal: 20 marks)
QUEST	TION FIVE	
(a)	List FIVE limitations of computer networking.	(5 marks)
(b)	Highlight FIVE reasons why an organisation may choose an off-the-shelf software package.	(5 marks)
(c)	Highlight FIVE benefits of cloud storage.	(5 marks)
(d)	Examine FIVE major components of e-commerce infrastructure. (Te	(5 marks) otal: 20 marks)
OUEST	TION SIX	
(a)	(i) State TWO examples of Network Operating System (NOS) from different software man	nufacturers. (2 marks)
	(ii) List TWO advantages and TWO 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 organ	isation. (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 library	system:
	(i) Data.	(2 marks)
	(ii) Processing.	(2 marks)
	(iii) Information. (To	(2 marks) otal: 20 marks)
OUEST	TION SEVEN	
(a)	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.	(6 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)

OUESTION 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	COLOURTV	SAMSUNG	28000
3	WASHING MACHINE	LG	23000
4	REFRIDGERATOR	WHIRLPOOL	24000
5	WASHING MACHINE	LG	22000
6	COLOURTV	WHIRLPOOL	35000
7	REFRIDGERATOR	SAMSUNG	25000
8	WASHING MACHINE	SAMSUNG	22000
9	COLOURTV	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)

QUESTION THREE

- (a) Explain the rationale behind applying the systems development life cycle (SDLC) during the development of information systems. (2 marks)
- (b) Outline **FOUR** methods for controlling unethical behaviour in ICT.

(4 marks)

(c) Bidii Company has established that its information is being electronically eavesdropped through their servers.

Outline **FOUR** measures that the company could put in place to minimise this crime.

(4 marks)

(d) Outline **FOUR** factors that could influence the choice of an information system.

(4 marks)

(e) Explain **THREE** ways in which decision support systems are applied in an organisation.

(6 marks) (Total: 20 marks)

OUESTION FOUR

(a) Give **TWO** reasons why an operating system must evolve over time.

(4 marks)

(b) Explain **THREE** impacts of e-commerce on customers.

(6 marks)

- (c) (i) Explain **TWO** basic control measures that organisations could take to improve security on personal devices that employees connect to an organisation's network. (4 marks)
 - (ii) Describe **THREE** Bring Your Own Device (BYOD) security best practices in an organisation.

(6 marks)

(Total: 20 marks)

OUESTION FIVE

(a) Highlight **FIVE** objectives of an information's system design.

(5 marks)

(b) Explain **FIVE** possible reasons why an organisation may decide to replace an information system.

(5 marks)

(c) Enumerate **FIVE** reasons why memory management is required in a computer system.

(5 marks)

(d) Tujenge Ltd. is in the process of developing a new information system. A few managers are reluctant to embrace the new information system.

Required:

(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.

(4 marks) (Total: 20 marks)

QUESTION SIX

(a) XYZ Ltd. invited an ICT consultant to set up a computer network. The consultant linked all the computers to every other in the network. The nodes were connected to every other via a dedicated link so that every node features a point-to-point connection to the opposite node.

Required:

(i) State the type of network topology on the above scenario.

(1 mark)

(ii) Highlight **FIVE** benefits associated with the topology.

(5 marks)

(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)

(d) Describe **FIVE** features of time-sharing operating system.

(5 marks)

OUESTION	SEVEN

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

Required:

- (i) Outline **TWO** 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		

3

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

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CS FOUNDATION LEVEL

INFORMATION COMMUNICATION TECHNOLOGY

WEDNESDAY: 7 December 2022. Afternoon Paper.

Time Allowed: 3 hours.

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

OU	EST	ΓIO	N	ONE

(a) State **FOUR** disadvantages of implementing information systems in an organisation. (4 marks)

(b) Explain **FIVE** computer hardware components that are required when establishing a multimedia platform for e-commerce. (5 marks)

(c) Using an example, explain how one would use "Goal seek" function in a business. (5 marks)

(d) Explain **THREE** problems that could be encountered when using a computerised accounting software.

(6 marks) (Total: 20 marks)

QUESTION TWO

(a) Outline the output products that result from the following systems development lifecycle stages:

(i) System initiation. (2 marks)

(ii) Requirement analysis. (2 marks)

(iii) Systems design. (2 marks)

(iv) System integration. (2 marks)

(v) Systems testing. (2 marks)

(b) Explain **TWO** limitations of using "Internet of things" (IoT) technology. (4 marks)

(c) Explain **THREE** ways in which e-commerce could be used to optimise business opportunities in a large hotel. (6 marks)

(Total: 20 marks)

OUESTION THREE

(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) Organisations use different types of information systems.

Required:

(i) List **THREE** 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 **FOUR** enterprise information system characteristics that support unstructured decision making in organisations. (4 marks)
- (c) Veronica stored word processing files in a flash disk when working from a home desktop computer. She has realised that the files could no longer open at her place of work.

Required:

Suggest FOUR reasons why some files may not open despite being visible on the flash disk.

(4 marks)

QUESTION FOUR	
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Differentiate between an "accounting package" and a "spreadsheet" based on the following features: (a) (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) Assess FIVE ways in which general ICT controls ensure the reliability of data generated by information (e) (5 marks) systems. (Total: 20 marks) **OUESTION FIVE** List FOUR types of software used to enable e-commerce business. (4 marks) Highlight FOUR types of skills that a system analyst is required to have in order to effectively carry out his/her (b) tasks. (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 system for Petoka Ltd. Explain **FOUR** advantages of using this method. (8 marks) (Total: 20 marks) **QUESTION SIX** Highlight TWO features of a presentation program that are not available in a word processing (a) (i) (2 marks) program. (ii) Explain THREE contexts in which one would need to use a presentation program instead of a word processing program. (3 marks) (b) Enumerate FIVE reasons why an organisation might opt to use subcontractors for its information system needs. (5 marks) Outline **FOUR** benefits of conducting a feasibility study during systems development. (4 marks) (c) (d) Explain **THREE** factors to consider when choosing an operating system for a computer. (6 marks) (Total: 20 marks) **OUESTION SEVEN** Explain **TWO** characteristics of a "peer to peer" computer network. (2 marks) (a) (b) Highlight TWO legal issues and two ethical issues that may arise by use of information systems in a large-scale chain-based supermarket. (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. However, the office space is not enough to accommodate all the staff and he has approached you for assistance. Required: Explain THREE modern ICT technologies that Simon could adopt to maximise employees' (i) productivity despite space constraints. (6 marks) Explain TWO possible disadvantages that Simon could face in adopting any of the technologies in (d) (ii) (i) above. (4 marks) (Total: 20 marks)



CS FOUNDATION LEVEL

INFORMATION COMMUNICATION TECHNOLOGY

WEDNESDAY: 3 August 2022. 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) Suggest the ethical issues resulting from each of the following technological trends:
 - (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 four characteristics of an open system. (4 marks)
- (c) Describe five moral dimensions of information systems. (5 marks)
- (d) Outline three measurers that you could include in your business continuity plan. (3 marks)
- (e) Explain the purpose of HLOOKUP as used in spreadsheet applications. (2 marks)

(Total: 20 marks)

QUESTION TWO

- (a) Giving an example in each case, differentiate between technological convergence and digital convergence as used in information technology communication. (4 marks)
- (b) XYZ Company Ltd. intends to develop an information system for its operations.
 - Outline three strategies that the board could put in place to ensure the success of this project. (3 marks)
- (c) A manager in an entertaining industry intends to use data driven decision support system to design a new product.

Outline three characteristics that the system should possess.

(3 marks)

- (d) Suggest how a business could overcome each of the following e-commerce challenges.
 - (i) 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. (4 marks)

(Total: 20 marks)

QUESTION THREE

- (a) Formulate four questions that would enable you to conduct stakeholder analysis in system development. (4 marks)
- (b) Explain the bookmark feature in the context of the internet browsing. (2 marks)
- (c) Identify the type of cell referencing used in the spreadsheet expressions below:
 - (i) =RANK(CS3 : SAS10,0) (1 mark)
 - (ii) = SUM(A\$3:A12) (1 mark)

(d)	Differe	entiate between sorting and filtering as used in worksheet data management.	(2 marks)
(e)	Differe	entiate between proofreading and formatting a document as used in word processing.	(2 marks)
(f)		prehensive backup plan is an essential tool for information security for the entire organisation. No a on the corporate servers be backed up, but individual computers used throughout the organisation sup.	
	With re	eference to the above statement, discuss three components of a good backup plan.	(6 marks)
(g)	Explain	n each of the following terms as used in internet:	
	(i)	Cookies.	(1 mark)
	(ii)	Blog. (Tota	(1 mark) al: 20 marks)
-	TION FO		(A. 1.)
(a)		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)	Explain	n the following features of a presentation package:	
	(i)	Transition effects.	(1 mark)
	(ii)	Speaker notes.	(1 mark)
	(iii)	Templates.	(1 mark)
(d)	The org	ganisation where you work intends to set up a local area network.	
	Advise	your management team on three hardware components required to accomplish the above task.	(6 marks)
(e)	Outline	e four factors that could be used when selecting the best software development methodology for a sp	ecific project. (4 marks) al: 20 marks)
QUEST	ΓΙΟΝ FI	· ·	,
(a)	Explain	n six reasons that would cause an information system project to fail during the implementation stage.	(6 marks)
(b)	In each	of the following, explain how a spreadsheet program is used:	
	(i)	Accounting.	(2 marks)
	(ii)	Forecasting.	(2 marks)
(c)	Describ	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	rganisations align their information systems functions to their business strategic plan.	
	Explair	n three benefits of this alignment. (Total	(6 marks) al: 20 marks)
QUEST (a)		urance company has decided that it no longer requires a physical Head Office. Its strategic aim is organisation. The company's auditors have concerns that information held by the virtual compan	

Required

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

(6 marks)

(b)	Highlight three challenges of prosecuting ICT cases in court.			
(c)	Explain four application areas of cloud computing technology in a governance/accounting services firm.			
(d)	Identify	five major management challenges to building and implementing information systems within an or	rganisation. (5 marks)	
(e)	Outline	two limitations of a touch screen as an input device. (Total	(2 marks) al: 20 marks)	
QUEST (a)		VEN three legal issues involved when a person who is a resident in Kenya or your country wants to p for sale in Japan via a server in Hungary. Assume he is doing online purchase through e-Commerce		
(b)	John M computi	Ibululu intends to implement cloud computing in his organisation but he has several concernsing.	about cloud	
	Suggest	three possible concerns for John Mbululu.	(3 marks)	
(c)	One tecl	hnique for gathering requirements during system development is the use of workshops.		
	Discuss	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. (Total	(2 marks) al: 20 marks)	



CS FOUNDATION LEVEL

INFORMATION COMMUNICATION TECHNOLOGY

WEDN	ESDAY	: 6 April 2022. Afternoon paper.	Time Allowed: 3 hours.
Answe	r any FI	VE questions. ALL questions carry equal marks. Do NOT write anything on this	paper.
QUES'	TION O	NE 1 five factors to consider when selecting a spreadsheet software.	(5 marks)
	-		(3 marks)
(b)	-	n the following terms as applied to data security in e-commerce.	(2 1)
	(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)
	(ii)	Highlight two drawbacks of a professional code of ethics.	(2 marks)
(d)	Exami	ne three impacts of the internet on the education sector.	(3 marks) (Total: 20 marks)
QUES'	TION T' ABC L	WO td. has opted to adopt a decision support system in the restructure of its business proce	sses.
	Requi		(2
	(i)	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)	Outline	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)	Highli	ght four features of a word processing of application package.	(4 marks) (Total: 20 marks)
QUES'	TION T	HREE s six reasons why a computer operating system is considered as a resource manager.	(6 marks)
(b)	It is po	ssible to lose a laptop, a mobile phone or a flash disk.	
	Discus	s four ways you could protect the data in your device to minimise data breach.	(8 marks)
(c)	The Ta	angaza County Government intends to establish information centres.	
	Explai	n two services that are likely to be offered at the centres.	(4 marks)
(d)	State to	wo challenges of using computerised accounting software in an organisation.	(2 marks)

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_	STION F		
(a)	Discu	ss the importance of information security policies.	(5 marks)
(b)	Expla	in four reasons why an organisation may prefer to install a peer to peer networking model.	(8 marks)
(c)	Outlin	ne seven indicators of a successful information system.	(7 marks) (Total: 20 marks)
_	STION F		
(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)	Expla	in three reasons why organisations pursue business process integration.	(6 marks)
(c)	E-con	amerce customers should be able to find the product they are looking for quickly.	
	Identi	fy three best practice features for e-commerce websites.	(3 marks)
(d)	Exam	ine the significance of carrying out stakeholder analysis before undertaking an informati	ion systems project. (6 marks) (Total: 20 marks)
OUES	STION S	IX	
(a)		ss three benefits that are provided by mobile devices and applications for health care profession	nals. (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.	(6 marks)
(c)	Asses	s three benefits of data backup and recovery procedures in a business.	(6 marks) (Total: 20 marks)
_	STION S		
(a)	comm	nternet of Things (IoT) has grown very rapidly and emerged to be a large part of how unicate and conduct business. While web-enabled devices are turning our global rights into ing area, the implementation of IoT has several challenges.	
	Discus	ss four security challenges that accompany IoT.	(8 marks)
(b)	Identi	benefits of requirements gathering process in an information system development.	(4 marks)
(c)	(i)	Identify three challenges that businesses could face in adopting e-commerce.	(3 marks)
	(ii)	For each of the identified challenges in (c) (i) above, suggest a suitable solution that bus deal with it.	sinesses could use to (3 marks)
(d)	Summ	arise two common challenges encountered while using the system development life cy	rcle (SDLC) model. (2 marks) (Total: 20 marks)



CS FOUNDATION LEVEL

INFORMATION COMMUNICATION TECHNOLOGY

FRIDAY: 17 December 2021. Time Allowed: 3 hours. Answer any FIVE questions. ALL questions carry equal marks. **QUESTION ONE** (a) Distinguish between the "e-wallets" and "bank transfers" e-commerce payment methods. (i) (4 marks) In an era of identity theft and impersonation, security is among the primary concerns that restrains consumers (ii) from engaging in e-commerce. With respect to the above statement, examine three critical functions that are performed by a secure electronic transaction (SET) system. (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 communication technology (ICT) with its business strategy. (5 marks) (Total: 20 marks) **QUESTION TWO** Discuss "sales and marketing systems" from a functional perspective. (a) (5 marks) (b) Explain five moral dimensions of the information age in the context of information systems. (5 marks) Alpha Limited is in the process of automating its operations. (c) State four types of office automation systems that the company should adopt. (4 marks) (d) ABC Company intends to undertake an information systems project. Outline three challenges that the company is likely to face. (3 marks) (e) Explain three goals of a transaction processing system to an organisation. (3 marks) (Total: 20 marks) **QUESTION THREE** (i) Outline three models used in classifying e-commerce applications. (a) (3 marks) (ii) Explain two security challenges encountered in digital marketing of e-commerce. (4 marks) (b) Most companies have embraced the use of cloud technology though they are facing challenges in its use. Explain three such challenges. (3 marks) (c) Define each of the following terms as used in systems theory. (i) Functional decomposition. (2 marks) (ii) Functional cohesion. (2 marks) Feed-forward. (iii) (2 marks) (d) Describe four features of systems approach to information systems. (4 marks)

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QUESTION FOUR

(a) Highlight four characteristics of Internet of Things (IoT).

(4 marks)

(b) Propose four duties of an information centre in an organisation.

- (4 marks)
- (c) ABC Transport company has opted to train its users before a new system is implemented.

Suggest four benefits of training users before implementing a new information system.

(4 marks)

(d) Outline four advantages of using joint application design (JAD) technique in the design of an information system.

(4 marks)

(e) (i) Define "cell referencing" in the context of spreadsheet applications.

(2 marks)

(ii) Using an example, explain one type of cell referencing.

(2 marks)

(Total: 20 marks)

QUESTION FIVE

(c)

(a) Describe 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)

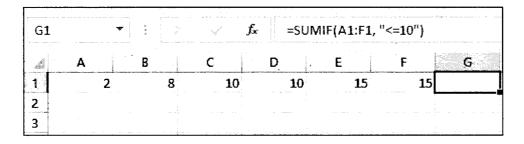
(i) Describe the job of a Systems Analyst.

(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:



Required:

(i) 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) Veronica would like to display the progress of her project to a panel of examiners using a presentation application.

Outline two ways in which she could display her presentation in slide show mode.

(2 marks)

(Total: 20 marks)

QUESTION SIX

- (a) 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 an example, demonstrate how you would use a formula to link data between two worksheets.

(4 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)	Explair	three types of applications of Internet of Things (IoT) in the government sector.	(6 marks)	
(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. Time Allowed: 3 hours.

Answer any FIVE questions.

ALL questions carry equal marks.

QUESTION ONE

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

4	Α	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	79	420.00	84	
12	11	The People	60	750	150	

Required:

- (i) Explain how you would format the column "COVER PRICE" to display values on the right-hand side 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)
- (b) By stating an example in each case, explain the following cloud computing models:

(i) IaaS. (2 marks)

(ii) SaaS. (2 marks)

- (c) Discuss the process of handling an interrupt that occurs during the execution of a program. (4 marks)
- (d) Explain the following terms as used in operating systems:

(i) Thread. (2 marks)

(ii) Internal fragmentation. (2 marks)

(iii) Shell. (2 marks)

(Total: 20 marks)

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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.

-			
ĸ	20	uir	en.
	···	uII	·u.

(a) Explain why it would be advantageous for Patrick Baraza to build rather than buy the computer software.

(3 marks)

- (b) Distinguish between the following sets of terms as they are applied to computer hardware:
 - (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.

(5 marks)

(Total: 20 marks)

OUESTION THREE

(a) 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 decide the appropriate one. (5 marks)

(Total: 20 marks)

OUESTION FOUR

(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) As a result of the COVID-19 pandemic, most organizations have deployed a work-from-home structure where employees exchange company communication and data over the Internet. Discuss the positive and negative impacts of this mode of working on organizations and their employees. (10 marks)

(Total: 20 marks)

QUESTION FIVE

- (a) Explain the required qualities of each of the following people in the development of computer systems:
 - (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, explain the following:
 - (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.

(2 marks)

OUESTION	SIX
OCEDITOR	DIZE

(d)

(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** Discuss FOUR purposes of maintaining a backup in an organisation. (4 marks) (b) Explain the following types of backups: (i) Full backup (2 marks) (ii) Incremental backup (2 marks) (iii) Differential backup. (2 marks) Discuss four roles of accounting information systems to organisations. (c) (4 marks)

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(2 marks)

(2 marks)

(2 marks)

(Total: 20 marks)

Explain the following computer data terms:

Byte.

(iii) Database.

(ii) File.