2902/103A, 2903/103A, 2906/103A, 2907/103A, 2908/103A, 2909/103A, 2912/103A, 2913/103A, 2914/103A, 2918/103A, 2921/103A, 2922/103A, 2924/103A, 2925/103A, 2926/103A, 2927/103A, 2928/103A, 2929/103A, 2930/103A INFORMATION COMMUNICATION TECHNOLOGY (THEORY)
Paper 1
July 2023

Time: 2 hours

THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN SALES AND MARKETING DIPLOMA IN SUPPLY CHAIN MANAGEMENT DIPLOMA IN BUSINESS MANAGEMENT DIPLOMA IN COOPERATIVE MANAGEMNET DIPLOMA IN HUMAN RESOURCE MANAGEMENT DIPLOMA IN ROAD TRANSPORT MANAGEMENT DIPLOMA IN MARITIME TRANSPORT OPERATIONS DIPLOMA IN TOUR GUIDING OPERATIONS DIPLOMA IN TOUR GUIDING AND TRAVEL OPERATIONS DIPLOMA IN PROJECT MANAGEMENT DIPLOMA IN CLERICAL OPERATIONS DIPLOMA IN INVESTMENT MANAGEMENT DIPLOMA IN MARITIME TRANSPORT LOGISTICS DIPLOMA IN HUMAN RESOURCE MANAGEMENT DIPLOMA IN PRINT JOURNALISM DIPLOMA IN BROADCAST JOURNALISM DIPLOMA IN DIGITAL JOURNALISM

MODULE I

INFORMATION COMMUNICATION TECHNOLOGY (THEORY)

Paper 1

2 hours

INSTRUCTIONS TO CANDIDATES

This paper consists of SIX questions.

Answer any FOUR of the SIX questions in the answer booklet provided.

Candidates should answer the questions in English.

This paper consists of 3 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

Turn over

1.	(a)	Outline three new features that were introduced in the fourth-generation			
	(b)	Explain each of the following types of threats to computer data:	(3 marks)		
		(i) viruses;			
		(ii) phising.	(4 marks)		
	(c)	State two differences between supercomputers and mainframe computers	. (4 marks)		
	(d)	With the aid of a diagram, describe a mesh computer network topology.	(4 marks)		
2.	(a)	State four objects that a user is likely to interact with when using a database	ase. (2 marks)		
	(b)	Outline four methods of organising files in a storage media based on data	accessibility. (4 marks)		
	(c)	A learning institution installed software in their computers. Explain two c system software that would have been installed.	categories of (4 marks)		
	(d)	With the aid of an example in each case, describe the following categories of compute storage:			
		(i) secondary;			
		(ii) primary.	(5 marks)		
3′.	(a)	Outline four advantages of off-the-shelf application software.	(4 marks)		
	(b)	Explain the function of each of the following features in a spreadsheet pro-	ogram:		
		(i) AutoSum;			
		(ii) Autofill.	(4 marks)		
	(c)	Organizations have opted to use e-mails for their communications. Outlin advantages of this method to the organization.	e four (4 marks)		
	(d)	Ken created slides in a presentation program. Outline three examples of she could have used in the presentation.	slide layouts (3 marks)		
4.	(a) Outline three examples of information displayed on the status bar i program.		ord processing (3 marks)		
	(b)	Explain each of the following features in a presentation program:			
		(i) theme;			
		(ii) animations.	(4 marks)		
	(c)	Liza used the <i>insert key</i> on the keyboard while editing a document created processor. Explain the two ways she could have used the insert key.	d in a word (4 marks)		
	(d)	Explain two reasons that would necessitate an organization to connect to	an intranet. (4 marks)		
			1.		
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- 5.
- (a) Outline **three** advantages of using templates in a presentation program.
- (3 marks)

- (b) Explain each of the following terms as used in the internet:
 - (i) spam;
 - (ii) search engine.

(4 marks)

- (c) Samuel intends to acquire a word processing program for her laptop. Outline **four** factors to consider during the acquisition. (4 marks)
- (d) Distinguish between active and passive computer network attacks.

(4 marks)

- 6. (a) Outline **three** security measures that an organization may put in place to secure their networked computers. (3 marks)
 - (b) Describe each of the following stages in the data processing cycle:
 - (i) data preparation;
 - (ii) output stage.

(4 marks)

(c) Bhenita Enterprise intends to use a spreadsheet program to compute new prices for its products as shown in Figure 1. Use it to answer the questions that follow.

.1	BHENITA ENTERPRISE NEW PRICE LIST				
2	PRODUCT	OLD PRICE	NEW PRICE		
3	Margarine	550	632.50		
4	Butter	600	690.00		
5	Ghee	655	753.25		
6		The second was the second seco	No. 100		
7	Percentage Increase	15%			

- (i) Using cell addresses only, write a formula that was used in cell C3 to compute the new price for margarine and later copied for all products.

 (New price = Old price × Percentage Increase + old price.) (2 marks)
- (ii) Identify **four** formatting features that have been applied in the worksheet extract. (2 marks)
- (d) Employees in an organisation are required to use an e-mail application for communication. Outline **four** e-mail operations that are likely to be carried out while using the application. (4 marks)

THIS IS THE LAST PRINTED PAGE.

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