2920/101
INTRODUCTION TO INFORMATION COMMUNICATION
TECHNOLOGY AND ETHICS
July 2022
Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

MODULE I

INTRODUCTION TO INFORMATION COMMUNICATION TECHNOLOGY AND ETHICS

3 hours

INSTRUCTIONS TO CANDIDATES

This paper consists of EIGHT questions.

Answer any FIVE of the EIGHT questions in the answer booklet provided.

Candidates should answer the questions in English.

This paper consists of 4 printed pages.

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

1/	(a)	Outl	ine four benefits of time management skills to a student.	(4 marks)		
	(b)	Describe three characteristics of data bus in a computer central processing unit (CPU). (6 marks				
	(c)	Disti	inguish between a switch and a bridge computer network device.	(4 marks)		
	(d)	A su likel	plain three (6 marks)			
2. √	(a)	Outl	(4 marks)			
	(b)	Expl	(4 marks)			
	(c)	Janet, an ICT student, suffers from depression. Describe three symptoms that she may exhibit. (6 mark				
,	(d)	An organisation uses <i>avoid-avoid</i> conflict resolution strategy. Explain three problems associated with this strategy. (6 marks)				
3. ¹	(a)	Outli	ine two roles of a database administrator in an organisation.	(2 marks)		
	(b)	Bora institute is in the process of acquiring computer software. Describe three methods that they could use. (6 marks)				
	(c)	A musician decided to use a DVD-RW to store his music. Explain three reasould have led to this decision.				
	(d)	(i)	A secretary at Mambo Company, carried out the following task in the office on a particular day:			
			 Making a personal emergency phone call using the company p Opening and replying to office emails; Typing the boss son's school project; Typing a dismissal letter for an employee; Planning the boss' diary; Searching online for the latest office wear. 	hone;		
			Categorize each task as either ethical or unethical.	(3 marks)		
		(ii)	Daztech Company intends to secure data against loss. Outline thr they could use to achieve this.	ee approaches (3 marks)		
4.	(a)	Explain each of the following types of system software:				
		(i)	Firmware;	(2 marks)		
		(ii)	Language translator.	(2 marks)		
	(b)	John was advised to patent his information communication technology innovate Explain three reasons for this advice.				

	(c)	Disti	inguish between trackball and optical computer mice.	(4 marks)		
	(d)	Quitech Company is in the process of connecting all its branches, suppliers and customers.				
		(i)	State the most appropriate computer network they could use.	(2 marks)		
		(ii)	Explain two reasons for using the network stated in (i).	(4 marks)		
5.	(a)	Outli	ne four characteristics of a twisted pair cable.	(4 marks)		
	(b)	(i)	Explain the term emotions as used in life skills.	(2 marks)		
		(ii)	Describe two people skills that a student should possess.	(4 marks)		
	(c)	Diffe	rentiate between privacy and confidentiality as used in ICT.	(4 marks)		
	(d)	Vinte	cch Company installed a laser printer for use. Explain three benefits the d accrue from this printer.			
64	(a)	(i)	State three computers classified according to their functionality.	(3 marks)		
		(ii)	James installed the latest application software in his computer. Outlin features of this software.			
	(b)	Differentiate between reliability and efficiency as used in computer software. (4 marks)				
	(c)	Figure	e 1 shows a computer input device. Use it to answer the questions that for	ollow.		
~		(i)	Identify this device in Figure 1.	(1 mark)		
Ser.		(ii)	Explain two disadvantage of the device identified in (i)	(4 marks)		
	(d)	Explai	in three circumstances that could lead an organisation to develop a data			

Cour.

X.

protection policy document. (6 marks)

(a) Outline four ergonomic practices while working with a computer. (4 marks)

(b) Explain each of the following terms as used in conflict management:

(i) smoothing; (2 marks)

(ii) competing. (2 marks)

- (c) Postech Company carried out a corporate social responsibility activity in the local market. Explain three benefits the company would accrue from this. (6 marks)
- (d) A company uses the fourth-generation computers in its offices. Explain three characteristics of these computers. (6 marks)
- 8. (a) Outline four disadvantages of a flash disk as a computer storage device. (4 marks)
 - (b) Software piracy is a highly practiced unethical behaviour in ICT. Explain three risks of this software to the user. (6 marks)
 - (c) Mary was advised to be moving occasionally while using a computer. Explain three benefits of this movement. (6 marks)
 - (d) Distinguish between serial and parallel computer ports. (4 marks)

B-CP C-PP M=PP PP-P

THIS IS THE LAST PRINTED PAGE.