2920/101
INTRODUCTION TO INFORMATION
COMMUNICATION
TECHNOLOGY AND ETHICS
July 2019
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 FIVE questions in the answer booklet provided.

ALL questions carry equal marks.

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) (i) State two equipment other than computers, that are likely to be found in the ICT department of a typical organisation. (2 marks) Students use snap-chat to communicate. Outline two challenges they are likely (ii) to face. (2 marks) (b) Kisima Company intends to network all its computers. Explain two disadvantages of this move to the company. (4 marks) (c) Jacky had the following devices in the computer laboratory. Keyboard, printer, plotter, speaker, scanner, mouse, trackball, monitor (i) Classify them as either input or output devices. (4 marks) (ii) Describe the function of a plotter. (2 marks) (d) A lecturer at Masomo Bora Technical is preparing a lesson on the topic emotions. Explain three positive ways of expressing emotions that could be included in the lesson. (6 marks) 2. (a) Explain three uses of Information Communication Technology in a college. (6 marks) (b) (i) With an aid of a diagram, describe a bus topology. (4 marks) (ii) State two advantages of the topology described in (i). (2 marks) (c) The management of Sweet Land Company intends to use preventive approach to manage conflicts among its employees. Explain three methods they could use to achieve this. (6 marks) (d) On a particular day, a secretary performed the following activities in the office. Opening and reading office email messages. Calling friends with office phone. Hosting a relative in the office. Printing internal Memo for meetings. Classify each of the activities as either ethical or unethical. (2 marks) 3. (a) Outline four physical security measures that a company could implement in their ICT department. (4 marks) (b) Explain three challenges an organisation could face when engaging in social responsibility. (6 marks) (c) Sadic company is contemplating replacing the off-the-shelf with tailor made software. Explain three benefits that the company would realise from this move. (6 marks) (d) Outline four reasons that could lead to unethical behaviour in Information Communication and Technology. (4marks) 4. (a) State two roles of each of the following computer personnel: (I) programmer; database administrator. (4 marks) Goldy Company Limited developed an ICT policy. Explain three benefits the company (b)

would accrue from this.

(6 marks)

	(c)	Explain the function of each of the following computer keyboard keys:		
		(i)	Prt Scr;	
		(ii)	Home.	(4 marks)
	(d)	With the aid of a block diagram, describe the functional components of a computer system. (6 marks)		
5.	(a)	(i)	Kiboko Company Limited uses an impact printer for printing. Outlin challenges the company would face by using such a printer.	c two (2 marks)
		(ii)	Distinguish between a router and bridge as used in computing.	(4 marks)
	(b)	(i)	Explain the importance of self awareness to a college student.	(2 marks)
		(ii)	Bilal Company Limited has trained its employees on resolving famil Explain two benefits of this training to the company.	y conflicts. (4 marks)
	(c)	Distinguish between leasing and outsourcing methods of software acquisition.		
				(4 marks)
	(d)	The management of Zackies Ltd. uses information communication and technology legislations in their company. Explain two sources of such legislations. (4 marks		nology (4 marks)
6.	(a)	State four characteristics of fourth generation computers. (2 marks)		
	(b)	(i)	Faida Co. Ltd. has been experiencing a lot of conflict between works Outline two causes of such conflicts	mates. (2 marks)
		(ii)	Distinguish between magnetic and optical storage devices giving an each case.	example in (6 marks)
	(c)	The management of Fre-ex Company has a life skill training programme for its staff. Explain three benefits the company would realise from this training. (6 marks)		
	(d)	Explain two circumstances that would make a student prefer to use an LCD monitor to a CRT monitor. (4 marks)		
7.	(a)	Outline four characteristics of a super computer. (4 marks)		
	(b)	Explain each of the following types of conflict resolution:		
		(i)	Approach - approach;	
		(ii)	Approach - avoid.	(4 marks)
	(c)	(i)	Describe the term <i>ergonomics</i> as used in Information Communication Technology.	n (2 marks)
		(ii)	Differentiate between micro and mini computers.	(4 marks)
	(d)	Galnic Company has opted to use electronic money transfer to pay its suppliers instead of cash.		
		(i)	Explain two benefits the Company would realise from this move.	(4 marks)
		(ii)	Outline two challenges the company is likely to face.	(2 marks)

- Outline four unethical behaviours that are common to computer technicians while executing his duties. (4 marks)
 - (b) Pesha, an ICT Manager, intends to buy software for her organisation. Explain three factors she should consider. (6 marks)
 - (c) Titus, a computer user, has been experiencing back pain as a result of using a computer. Outline four precautions that he could take to resolve this. (4 marks)
 - (d) Zawadi Company is planning to clean up the neighbouring town as part of its social responsibility. Explain one importance of this exercise to the company.

(2 marks)

(ii) Differentiate between distress and eustress as types of stress.

(4 marks)

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