2920/101
INTRODUCTION TO INFORMATION COMMUNICATION
TECHNOLOGY AND ETHICS
July 2021

Time: 3 hours



## THE KENYA NATIONAL EXAMINATIONS COUNCIL

# DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

#### MODULE

INTRODUCTION TO INFORMATION COMMUNICATION TECHNOLOGY AND ETHICS

3 hours

### INSTRUCTIONS TO CANDIDATES

This paper consists of EIGHT questions.

Answer any FIVE 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.

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1.	(a)	Outline four advantages of using coaxial cable in computer networking.	(4 marks)
	(b)	Explain three uses of information communication technology in the manual	
		Sector. While the sector of th	(6 marks)
	(c)	Distinguish between control bus and address bus as used in computers.	(4 marks)
	(d)	John, a manager at Citiview Company, has noticed conflicts amongst his en Explain three types of conflicts that he could have noticed.	mployees. (6 marks)
2.	/ (a)	(i) List four ICT equipment likely to be found in an organisation other computers.	than (2 marks)
		(ii) Outline four features of a third generation computer.	(4 marks)
	(b)	Classify each of the following software as either application or housekeeping	ng. (4 marks)
		Open office, merge, sort, spread sheet, anti-virus, presentation, defragment database.	er,
	(c)	Describe each of the following factors considered when selecting computer software:	
		(i) authenticity; - 5em line 18	(2 marks)
		(ii) portability. She make the property of the	(2 marks)
	(d)	Kwetu Technical Institute intends to undertake a social responsibility exerc	3
	(0)	neighbourhood. Explain three factors the institution should consider when activity to engage in.	choosing an (6 marks)
3.	(a)	Outline four advantages of a linear network topology.	(4 marks)
	(b)	Differentiate between conflict resolution and conflict management.	(4 marks)
	(c)	Joan uses a computer regularly. Explain three measures she could put in plathat her computer monitor is ergonomically safe.	A Personal Control of the Control of
	(d)	Elimu Technical Institute held a talk on methods of stress management. Exp methods that could have been mentioned.	olain three (6 marks)
4.	(a)	Outline four roles of a computer programmer.	(4 marks)
	(b)	Distinguish between leasing and outsourcing system acquisition methods.	(4 marks)
	(c)	Mary used a microphone to capture data into a computer. Explain three cha could have faced while using this device.	llenges she (6 marks)
	(d)	Explain three circumstances for the preference of tailor made software.	(6 marks)
5.	(a)	Outline four ways that a student could use to improve self-esteem.	(4 marks)
	(b)	Describe three benefits of social responsibility to an organisation.	(6 marks)
	(c)	Distinguish between avoiding and competing as used in conflict management	
	(d)	One of the considerations made when acquiring a computer is the processor. three specifications that one could use in this consideration.	

- (a) Explain two circumstances that could lead to the use of DVD-RW for data storage.
   (4 marks)
  - (b) Conflict amongst college students is one reason for poor performance. Explain three causes of such conflicts. (6 marks)
  - (c) Figure 1 shows a cable used in computer network. Use it to answer the questions that follow.

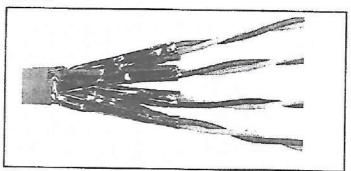


Figure 1

(i) identify the cable shown in the figure;

(2 marks)

(ii) describe two benefits of using this cable.

(4 marks)

- (d) Haztech Company intends to put in place measures to control unethical behaviour amongst its ICT personnel. Outline four approaches the company could use. (4 marks)
- 7. (a) Outline four advantages of using a Magnetic Ink Character Reader (MICR) as an input device. (4 marks)
  - (b) Explain three circumstances that could necessitate the use of a plotter for printing.

(6 marks)

- (c) Differentiate between confidentiality and privacy as used in data security. (4 marks)
- (d) James was advised to use a strong password in his computer. Explain three characteristics that this password should poses. (6 marks)
- 8. (a) Explain three benefits of good time management to a college student. (6 marks)
  - (b) Differentiate between analogue and digital computers. (4 marks)
  - (c) A student uses a foot rest while using a computer in the laboratory. Explain three reasons that could have led to this use. (6 marks)
  - (d) John created a software that he intends to release to the market and he was advised to copyright it. Explain two benefits that he is likely to accrue if he takes this advice.

    (4 marks)

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