1920/101 INTRODUCTION TO ICT July 2018 Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

CRAFT CERTIFICATE IN INFORMATION TECHNOLOGY

MODULE I

INTRODUCTION TO ICT

3 hours

INSTRUCTIONS TO CANDIDATES

This paper consists of **TWO** sections; A and B.

Answer ALL the questions in section A and any **FOUR** from section B 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.

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SECTION A (40 marks)

Answer ALL the questions in this section.

1.	Expi	ain each of the following file access methods in a computer system:			
	(i)	random access;			
	(ii)	indexed sequential.	(4 marks)		
2.	Explain each of the following types of outputs, giving an example in each case:				
	(i)	softcopy; - Document or Files that one me stored In compa	rei		
	(ii)	hardcopy	(4 marks)		
3.	Distin	istinguish between the terms bandwidth and broadband as used in computer networks. (4 mar			
4.	(a)	Jacob has been requested to connect all the computers in the college on a loc network. State four networking hardware tools that would assist him to account task.	al area mplish the (2 marks)		
	(b)	A certain organization intends to use web-based applications for its operation two drawbacks the organization is likely to face from this technology.	ns. Outline (2 marks)		
5.	Merry two a	Interryland Hospital has installed a database management system for its operations. Explain to advantages of this system to the organization. (4 marks)			
6.	Mercy Expla	y has been tasked to enforce the computer systems data security within her orgain two logical measures she could implement to achieve this.	anization. (4 marks)		
7.	Outling - Seco	ne four factors that should be considered during the acquisition of computer so	ftware. (4 marks)		
8.	Differ	rentiate between off-the-shelf and custom made software.	(4 marks)		
9.	Explain each of the following data processing modes:				
		batch processing;			
	(ii)	multi-processing.	(4 marks)		
10.	Explain each of the following terms as applied in computer ethics:				
	(i)	software piracy: Leagal act			
	(ii)	software patent right of luce vo	(4 marks)		

SECTION B (60 marks)

Answer any FOUR questions from this Section.

11.	(a)	Outline three characteristics of a real time transaction processing system.	(3 marks)
	(b)	Universal Serial Bus devices have become popular with computer users. Explireasons for this trend.	ain three (6 marks)
	(c)	Organizations face ethical issues as a result of continuous use of Information Communication Technology. Explain three such issues.	(6 marks)
12.	(a)	A certain country has introduced the use of robots in the war zones. Outline fin which they could use these robots.	ive ways (5 marks)
	(b)	Describe each of the following computer devices:	
		(i) flatbed scanner;	
		(ii) graphic tablet To request graph, t	(4 marks)
	(c)	Amani hospital intends to install a Local Area Network to all its offices that of floors within the same building. Explain three advantages they would achieve network. Account a straight of the same	re from the (6 marks)
13.	(a)	Outline three elements of a computer file Branch Field. Distinguish between a general purpose and a dedicated computer giving an	(3 marks)
	(b)	Distinguish between a general purpose and a dedicated computer, giving an each.	example of (4 marks)
	(c)	With the aid of a diagram, describe the functional components of the central unit in a computer system.	processing (8 marks)
14.	(a)	David acquired a computer and its related software for use in carrying out coaided design tasks.	
		(i) Explain the term software. This as applicant hat is goe	(2 marks)
		(ii) Explain two types of system software that he may acquire giving an each. System Software. UCLAS MAC OS	example of (5 marks)
,	(b)	A computer may harm users if they frequently use it for long hours. Outline health problems that could be caused by such prolonged use giving a remediation.	y for each. (6 marks)
	(c)	Joshua recommended the use of graphical user interface for first time compute the organization. State four features of this interface.	nter users in (2 marks)
		- Use of Icons Nem drien. Fromant Pointing digner	
		Fromant	
1920/101 July 2018		the organization. State four features of this interface. - Use of Icons - New Arien - Pointing of 3mc - Pointing of 3mc -	Turn over

15. (a) State three advantages of fibre optic cables in computer networking.

(3 marks)

(b) Explain three positive impacts that ICT has on society.

(6 marks)

(c) Figure 1 shows network topologies applied in a certain college. Use it to answer the questions that follow.

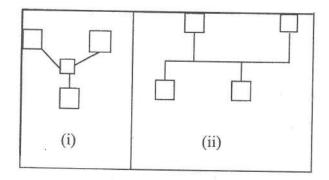


Figure1

Describe each of the network topologies labelled (i) and (ii).

(6 marks)

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