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



THE KENYA NATIONAL EXAMINATIONS COUNCIL CRAFT CERTIFICATE IN INFORMATION TECHNOLOGY

MODULE I

INTRODUCTION TO ICT

3 hours

INSTRUCTIONS TO THE CANDIDATES

This paper consists of TWO sections; A and B

Answer ALL the questions in Section A and any FOUR in 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.	Define each of the following terms as used in Information Communication Technology:			
	(i)	electronic data interchange:		
	(ii)	telecommuting.	(4 marks)	
2.	Outline four ethical issues that organizations face as a result of embracing information			
	technology.		(4 marks)	
3.	Karai College has availed computers for their students that are connected to the Internet.		rnet.	
	Expl	ain two advantages of this move to the students.	(4 marks)	
4.		intends to purchase software from an authentic source to assist her in accounts		
	Expl	ain two items that should come along with the software.	(4 marks)	
5.	Ottli	Outline four ways in which computer users could protect themselves from eye strain caused by		
	comp	puter radiations.	(4 marks)	
6.	(a)	Explain the term bandwidth as used in computer networks.	(2 marks)	
	(b)	Distinguish between transposition errors and transcription errors as used in	ı data	
	90.8	processing.	(2 marks)	
7.	Describe each of the following types of visual display units: (i) eathode ray tube; (ii) liquid crystal display. (4 marks)			
	(i) cathode ray tube;			
	(ii)	liquid crystal display.	(4 marks)	
0	T.	the set of the fellowing normalize output devices with respect to their function	nality:	
8.	Explain each of the following computer output devices with respect to their functionality:			
	(i)	printer;	(4 marks)	
	(ii)	plotter.	(4 marks)	
9.	The following are tasks that need to be accomplished in an office:			
3		 production of reports for the company; 		
	management of employees records; production of school magazine;			
		manipulation of numeric data collected from a research station.		
	State the most appropriate application program that could be used to complete each of the			
	tasks	S,	(4 marks)	
10.	(a)	The transport industry has embraced the use of ICT in its operations. Outlin	ie two	
		computer devices that could be installed in a vehicle.	(2 marks)	
	(b)	Betcha Cooperative Society intends to computerize it operations. Outline to which the employees could be affected.	vo ways in (2 marks)	

Section B (60 marks)

Answer any Four questions in this Section.

- (a) Explain the term computer crime as used in information communication technology.
 (2 marks)
 - (b) A researcher carried out a study on the impacts of ICT on the society and concluded that the community has suffered from its negative impacts. Explain three possible findings from this study. (6 marks)
 - (c) A large manufacturing firm has opened distribution outlets in three regions within the country and intends to connect them using computer networks.
 - Describe the type of network that you would recommend to the firm. (4 marks)
 - Outline three appropriate devices that could be used during installation of such a network. (3 marks)
- (a) With the aid of a diagram, describe each of the following network topologies:
 - (i) mesh topology;
 - (ii) ring topology.

(6 marks)

- (b) Distinguish between analogue computers and digital computers with respect to their functionality. (4 marks)
- James has been assigned with the responsibility of organizing ICT-systems' back-ups and maintenance of computer files.
 - (i) Explain the function of a back-up file;

(2 marks)

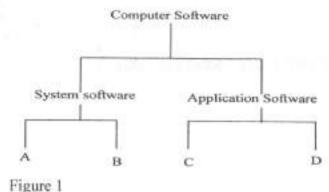
(ii) Outline three methods that could be used to create back-up files.

(3 marks)

- (a) Describe each of the following computer input devices as used in computer systems:
 - (i) digitizer;
 - (ii) punched tag;
 - (iii) badge reader.

(6 marks)

(b) Figure 1 shows the software family tree. Use it to answer the questions that follow.



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- (i) Identify each of the software labelled A, B, C and D; (2 marks)

 (ii) Describe the function of each of the software labelled A and B sixing as
- (ii) Describe the function of each of the software labelled A and B giving an example of each.
 (4 marks)
- (iii) Explain two methods that could be used to acquire the software labelled C and D. (3 marks)
- (a) Describe each of the following examples of data transmission media:
 - (i) UTP:
 - (ii) microwave;
 - (iii) Fibre optic cable.

(6 marks)

- (b) Most colleges have set up computer laboratories to be used by the students. Explain three physical security measures that these colleges should adopt to protect the laboratories. (6 marks)
- (c) George is an upcoming musician who intends to use computers in his operations.
 Outline three ways in which he would benefit from the use of computers. (3 marks)
- 15. (a) With the aid of a block diagram, outline the stages of data processing cycle. (5 marks)
 - (b) Computer buses are used to connect different components in a computer system. Explain the role of each of the following computer buses:
 - address bus;
 - (ii) data bus;
 - (iii) control bus.

(6 marks)

(c) Loise has been tasked to acquire a computer printer to be used by her organization.

Outline four factors that she should consider. (4 marks)

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