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INTRODUCTION TO ICT

July 2015

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THE KENYA NATIONAL EXAMINATIONS COUNCIL

CRAFT CERTIFICATE IN INFORMATION TECHNOLOGY

MODULE I

INTRODUCTION TO ICT

3 hours



INSTRUCTIONS TO CANDIDATES

*Write your name and index number in the spaces provided above.**Sign and write the date of examination in the spaces provided above.**This paper consists of fifteen questions in two sections, A and B.**Answer ALL the questions in section A in the spaces provided.**Answer any FOUR questions in section B in the spaces provided.**Candidates should answer the questions in English.*

For Examiner's Use Only

Section	Question	Maximum score	Candidates score
A	1-10	40	
B	11	15	
	12	15	
	13	15	
	14	15	
	15	15	
Total score			

This paper consists of 12 printed pages.

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

SECTION A (40 marks)

Answer **ALL** the questions in this section in the spaces provided

1. (a) Define the term *Information* as used in ICT. (2 mark.)

- (b) Describe *sequential* file organization method as applied in computers. (2 marks)

2. (a) List **four** categories of *microcomputers*. (2 marks)

- (b) Aisha, a computer technician would like to transfer a word document from her stand alone computer to another computer. Outline **two** computer storage devices that she would use to achieve her objective. (2 marks)

3. Distinguish between *mechanical* and *electronic* data processing methods. (4 marks)

4. Figure 1 shows a computer network topology. Use it to answer the questions that follow.

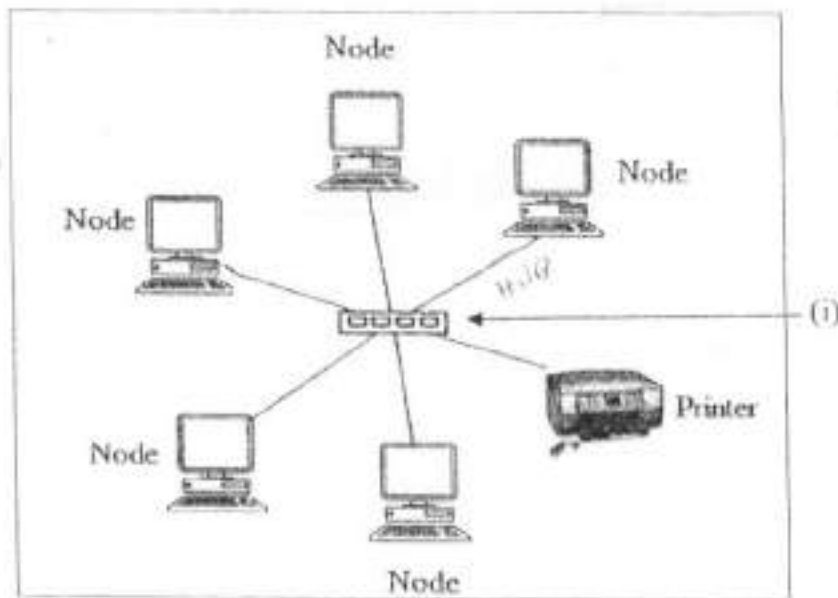


Figure 1

- (i) Name the component labeled (i).

(1 mark)

- (ii) Outline **three** advantages of the topology outlined in figure 1.

(3 marks)

5. (a) Outline **two** precautions taken to avoid eye strain when using a computer.

(2 marks)

- (b) Describe a *supercomputer*.

(2 marks)

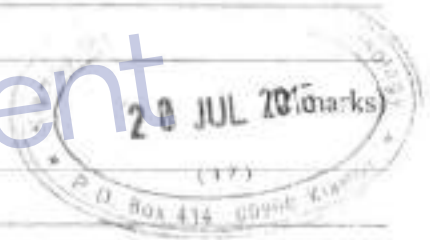
6. (a) Outline **two** advantages of *batch* data processing mode as used in computers. (2 marks)

- (b) Explain **one** way through which computer virus may be spread. (2 marks)

7. (a) Outline **two** negative impacts of use of *social media* technology to the society.

(2 marks)

- (b) State **two** laws governing ICT use in Kenya.



8. (a) Philip a computer technician intends to control access of data from computers in a Technical Institution. Outline **two** measures he should put in place to achieve his objective.

(2 marks)

- (b) Explain **one** benefit of using an *automated* system in manufacturing.

(2 marks)

9. Charles was in the process of installing a suite of programs in his computer and got the error message, "Software was not successfully installed". Explain **two** causes of this error. (4 marks)

space
virus

10. Table 1 shows a list of computer devices. Use it to answer the questions that follow.

	Computer Device	Function
1	OMR	Used for inputting magnetic data into the computer
2	MICR	Used for capturing and inputting graphic images to the computer.
3	Hand Held scanner	Playing computer games
4	Joystick	Used for reading data from bar codes into the computer.

Table 1

Match each of the computer input devices with its corresponding function.

(4 marks)

SECTION B (60 marks)

Answer any **FOUR** questions in this section in the spaces provided

11. (a) Nicholson intends to buy a printer for his home use. Outline **three** factors he should consider when selecting the hardware. (3 marks)

- (b) Explain each of the following types of computer software:

- (i) Operating system; (2 marks)

- (ii) Utility software; (2 marks)

- (iii) Generic software. (2 marks)

- (c) Amari was advised to use a high level programming language to develop a system for a certain organization.

- (i) Outline **four** features of these programming languages. (4 marks)

(ii) List four examples of these programming languages.

(2 marks)

FORTRAN

C

C++

Pascal

FORTRAN

12. (a) Amina, a computer user, had to prepare each of the following documents. Outline the software that she could use for each:

(i) curriculum vitae;

(1 mark)

(ii) architectural design of a road bridge;

(1 mark)

(iii) balance sheet.

(1 mark)

(b) A student at a certain college was accused of plagiarism.

(i) State three problems of this habit;

(3 marks)

(ii) List six factors that may have led to this habit.

(3 mark)

- (c) With the aid of a diagram, outline the parts of a computer floppy disk. (6 marks)

13. (a) A technician at Usitadi college has been tasked with networking of the college computers. Outline the function of each of the following tools that he might use to network the computers:

(i) RJ45; (1 mark)

(ii) Crimping tool; (1 mark)

(iii) Punch downs; (1 mark)

(iv) Cable tester; (1 mark)

(v) MODEM; (1 mark)



- (b) Speed Bank Ltd has automated its operations. Outline a benefit which the bank would accrue from the use of each the following technologies:

(i) Tele-banking; (2 marks)

(ii) EFT. (2 marks)

(c) (i) Describe a *reference file* as used in computers. (2 marks)

(ii) Explain two disadvantages of *time sharing* policy in data processing. (4 marks)

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4. (a) Differentiate between *second* and *third* generation computer generations. (4 marks)

- (b) (i) With the aid of an example, outline one function of each of following computer software:

I. Database; (1½ mark)

II. Presentation (1½ mark)

- (ii) Charlyn intends to create a birthday card using a computer.

I. State a computer software that would be best suited for the task.

(1 mark)

II. Outline a feature of the software named in I that makes it most suitable.

(1 mark)

- (c) Appraise Computer College intends to network their computers using bus topology.

(i) With the aid of a diagram, outline this topology

(3 marks)



(ii) Outline **three** disadvantages of this topology.

(3 marks)

15. (a) (i) Bits Electronics company has acquired computers with new specifications. Explain a challenge that employees could experience out of their use. (2 marks)

- (ii) Annestine a computer user has experienced Repetitive Strain Injury. Explain two examples of this injury that she might have experienced. (4 marks)

(i) Typing. Carpal tunnel injury.

- (b) Figure 2 shows a computer input device. Use it to answer the questions that follow.

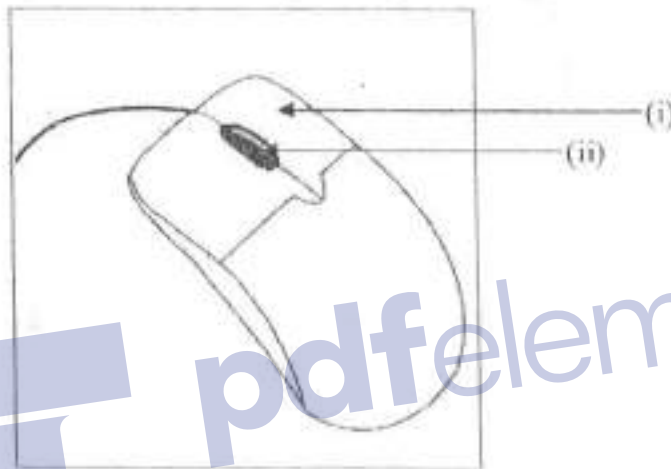


Figure 2

- I. List two manipulation techniques associated with the device. (1 mark)

(i) Click for selection
(ii) Scroll for navigating through documents or files

- II. Outline a circumstance under which each of the parts labeled (i) and (ii) would be used. (2 marks)

(i) Used to click on icons or links on a computer screen.
(ii) Used for scrolling through documents and files.

(c) Many offices have adopted wireless computer networks. Outline:

(i) **three** advantages of this technology.

(3 marks)

(ii) **three** disadvantages of this technology.

(3 marks)



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