MANYAM FRANCHISE
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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 all 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.

Turn over

SECTION A (40 MARKS)

Answer all questions in the spaces provided.

1. (a) Define the term *liveware* as used in computers.   (2 marks)

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    (b) Explain **one** function of a *backup file* as used in computers.   (2 marks)

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2. (a) State **two** features of *third generation* computers.   (2 marks)

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    (b) Ann a computer student performed a cold boot process to her desktop computer. Outline **two** types of software which would be loaded in the computer memory during this process.

                                                                        (2 marks)

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3. Differentiate between *batch* and *online* data processing modes.   (4 marks)

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4. (a) Figure 1 and Figure 2 show different data communication cables. Identify the cables represented by each figure.   (2 marks)
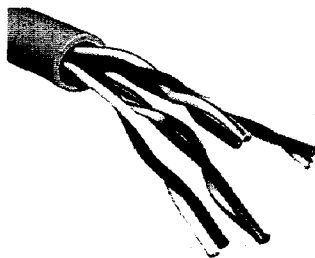

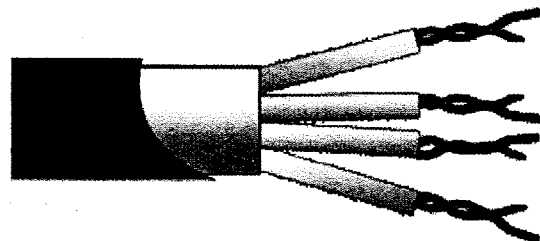Figure 1   Figure 2

(b)   Outline **one** advantage of each of the cables identified in (a).   (2 marks)

5.   (a)   Outline **two** functions of an *uninterruptible power supply* as used in computers.
                                                                                (2 marks)

        (b)   Describe *Abacus* machine in the context of computer evolution.   (2 marks)

6.   (a)   List **four** types of *file access* methods as applied in computers.   (2 marks)

        (b)   Describe *biometric* as used in ICT security.   (2 marks)

7.   (a)   Outline **two** advantages of *touch screen* technology as used in ICT.   (2 marks)

(b)   State **two** ways of identifying *pirated* computer software.   (2 marks)

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8.   (a)   Figure 3 shows an ergonomic chair. Identify the parts labeled (i) and (ii).   (2 marks)

Figure 3
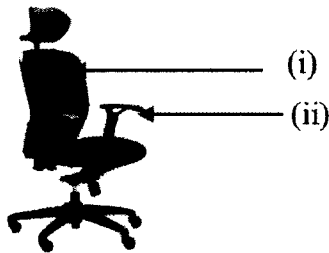
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(b)   Explain **one** use of ICT in education.   (2 marks)

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9.   Alice is in the process of assembling a new computer. Outline computer cables that she would use to make connections between each of the following computer components:

(a)   system unit and a monitor;   (2 marks)

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(b)   system unit and keyboard.   (2 marks)

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10. Figure 4 shows a QWERTY computer keyboard. Identify each of the parts labeled (a), (b), (c) and (d).
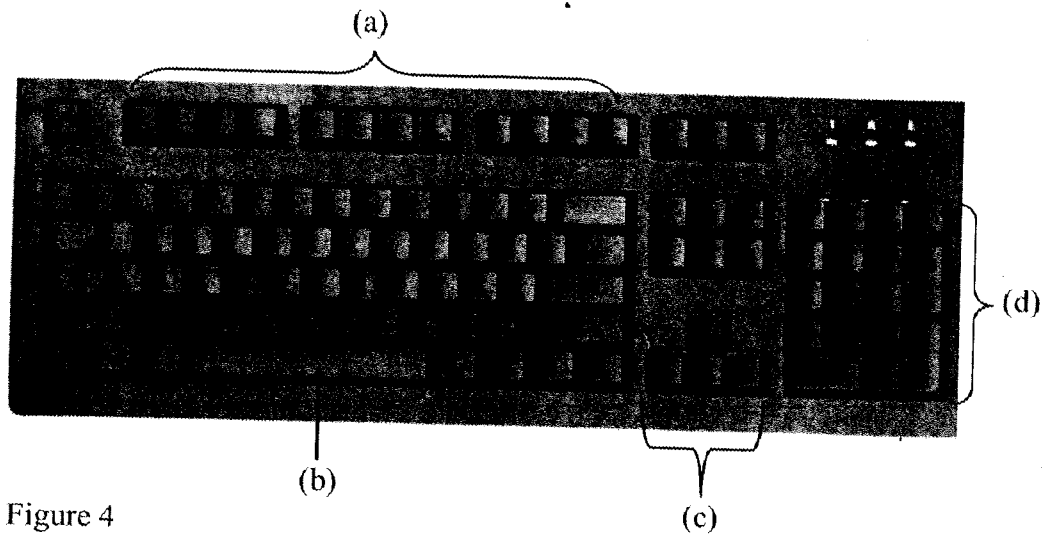
(4 marks)

Figure 4

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SECTION B (60 MARKS)

11. (a) With the aid of a diagram, describe *barcodes* as used in computers. (3 mark)

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(b) Explain **three** factors to be considered when purchasing computer software. (6 marks)

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(c) Asha, a module 1 student intends to install software in her computer. Describe **three** hardware requirements that her computer should meet. (6 marks)

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12. (a) With the aid of an example, describe *Desktop Publishing* computer software. (3 marks)

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(b)   A technician at TFT company has been sued in a court of law for committing each of the following computer crimes. Describe each of the crimes that he had committed.

(i)   hacking;   (3 mark)

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(ii)   spoofing.   (3 mark)

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(c)   With the aid a diagram, explain the function of each component that make up the computer *central processing unit.*   (6 marks)

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13.   (a)   With the aid of a diagram, describe *mesh network* topology.   (5 marks)

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(b) The management of Afya clinic bought a computer for the clinics operations. Explain **two** uses that the clinic would have for the computer. (4 marks)

(c) Explain **three** activities that would be performed on a *computer file*. (6 marks)

14. (a) Distinguish between *super computers* and *laptop computers*. (4 marks)

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(b) (i) Describe *Presentation* computer software , giving an example. (3 marks)

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(ii) Bidii company has bought the following software and intends to install them in their computers. Identify the software that should be installed first giving a reason. (2 marks)

Database, Antivirus, Operating System, Computer game.

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(c) With the aid of a diagram, describe two parts of a *fibre optic* cable. (6 marks)

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15. (a) (i) ICT technology is quite dynamic in terms of size. Explain a benefit that an organization that deals with storage of ICT equipment would gain. (2 marks)

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(ii) Figure 5 shows an input device. Justifying your answer, outline one area of application for this device. (3 marks)

Figure 5

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(b) It was noted that computers and computer tables in a computer lab were dusty and required cleaning. Outline **four** materials that may be required to aid in cleaning the laboratory and the computers. (4 marks)

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(c) Abdi, a computer technician has 2 labs each having 4 computers and he would like to network them using 2 hubs. With the aid of a diagram, outline the topology that he would employ to achieve his objective. (6 marks)