

1920/101
INTRODUCTION TO INFORMATION
COMMUNICATION TECHNOLOGY
November 2022
Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL
CRAFT CERTIFICATE IN INFORMATION TECHNOLOGY
MODULE 1

INTRODUCTION TO INFORMATION COMMUNICATION TECHNOLOGY

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.

Section A (40 marks)

Answer ALL the questions in this section.

1. Outline **four** factors to consider when selecting a computer software. (4 marks)
2. A computer technician clipped all the computer cables together at the back of a computer. Explain **two** reasons for this action. (4 marks)
3. Outline **four** characteristics of a mesh computer network topology. (4 marks)
4. Differentiate between *batch* and *timesharing* data processing modes. (4 marks)
5. John preferred to use a DVD to store his music. Explain **two** reasons for this preference. (4 marks)
6. Masomo College integrated Information Communication Technology in learning. Explain **two** negative effects this would have to the students. (4 marks)
7. Explain **two** advantages of a flash disk as a storage media. (4 marks)
8. Outline **four** disadvantages of magnetic tapes as a computer storage device. (4 marks)
9. Mary used a coaxial cable to set up a computer network. Explain **two** characteristics of this cable. (4 marks)
10. Using an example in each case, outline **two** categories of keys on a typical computer keyboard. (4 marks)

Section B (60 marks)

Answer FOUR questions in this section.

11. (a) Describe each of the following types of computers:
- (i) super computer; (2 marks)
 - (ii) digital; (2 marks)
 - (iii) special purpose. (2 marks)
- (b) Alice connected her computer to an Uninterruptible Power Supply (UPS). Explain **three** advantages of using this device. (6 marks)
- (c) Paul patented his new Information Communication Technology innovation. Outline **three** benefits he would accrue from this action. (3 marks)

12. (a) Describe **three** computer pointing devices. (6 marks)
- (b) Figure 1 shows a component connected to a networking cable. Use it to answer the questions that follow:

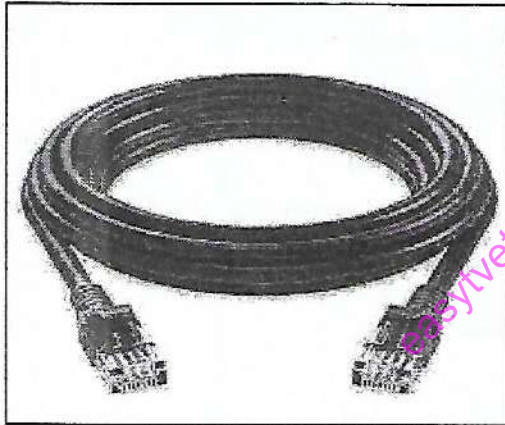


Figure 1

- (i) identify the component; (1 mark)
 - (ii) state **four** devices that could be connected to a computer using the component identified. (4 marks)
- (c) Elimu Technical Institute uses sequential file organisation method in storing student's data.
- (i) explain this file organisation method. (2 marks)
 - (ii) outline **two** challenges of this organisation methods. (2 marks)
13. (a) (i) Define the term *data processing*. (2 marks)
- (ii) Describe each of the following terms as used in data hierarchy:
- (I) byte; (2 marks)
 - (II) record. (2 marks)
- (b) Differentiate between *magnetic ink card reader* and *bar code reader*. (4 marks)

- (c) A company intends to connect all its computers that are located within the same building.
- (i) identify the most appropriate type of network it could implement. (1 mark)
 - (ii) explain **two** benefits of the network identified in (i). (4 marks)
14. (a) Outline **four** characteristics of 3rd generation computers. (4 marks)
- (b) (i) Describe the term *text editor* as used in computers. (2 marks)
- (ii) James' laptop has been infected by a computer virus. Outline **four** symptoms that the laptop could exhibit. (4 marks)
- (c) (i) List **four** types of computer monitors. (2 marks)
- (ii) Wezesha Bank Ltd. installed an impact printer for their use. Outline **three** limitations of this printer. (3 marks)
15. (a) (i) Explain the term *phishing* as used in computer crimes. (2 marks)
- (ii) Outline **one** method through which a user could avoid phishing. (1 mark)
- (b) A company acquired a commercial off the shelf software. Explain **three** advantages of this software. (6 marks)
- (c) The management of a manufacturing firm would like to acquire computers. Explain **three** application areas in which they could be used. (6 marks)

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