

1920/101
INTRODUCTION TO INFORMATION
COMMUNICATION TECHNOLOGY
November 2021
Time: 3 hours



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

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 **two** characteristics of the following types of computer monitors:
 - (i) cathode-ray tube; (2 marks)
 - (ii) flat-panel display. (2 marks)
2. Describe each of the following types of computers:
 - (i) analogue; (2 marks)
 - (ii) hybrid. (2 marks)
3. Explain **two** circumstances that could lead an organisation to secure their electronic data. (4 marks)
4. A college intends to adopt computerised data processing in its operations. Describe **two** modes of processing that the college could consider. (4 marks)
5. Tiffany, a student, has been using a flash disk to store her project work. Describe **two** benefits that she is likely to realise from using this device. (4 marks)
6. Dan, a computer user, has been experiencing wrist pains. Explain **two** precautions he could take to prevent such pains. (4 marks)
7. Describe each of the following factors to consider when selecting computer hardware:
 - (i) compatibility;
 - (ii) expandability: (4 marks)
8. Distinguish between *optical mark reader (OMR)* and *optical character reader (OCR)*. (4 marks)
9. Diana created a master file on her new computer. Describe **two** types of files she could have used to create this file. (4 marks)
10. Outline **four** methods that can be used to secure data in a computer system. (4 marks)

SECTION B (60 marks)

Answer any FOUR questions in this section.

11. (a) Outline **three** features of a mainframe computer. (3 marks)
- (b) Mary copyrighted a new book she has published for sale. Explain **three** benefits she is likely to realise from copyrighting. (6 marks)
- (c) Cloud Company has adopted the use of green computing technology. Explain **three** features of this technology. (6 marks)
12. (a) Explain **three** negative effects of information communication technology to a college student. (6 marks)
- (b) Distinguish between *CD-RW* and *CD-R* as used in computers. (4 marks)
- (c) Figure 1 shows a computer network configuration. Use it to answer the questions that follow:



Figure 1

- (i) Identify the type of computer network in Figure 1. (1 mark)
- (ii) Outline **four** benefits of this network to an organisation. (4 marks)
13. (a) Sisi Company uses random file access method. Explain **three** advantages of this method. (6 marks)
- (b) Explain **two** uses of computers for defence. (4 marks)
- (c) Harry bought a wireless mouse for use in his office computer.
- (i) describe this device. (2 marks)
- (ii) outline **three** disadvantages of this device. (3 marks)
14. (a) Outline **four** application areas of computers in agriculture. (4 marks)
- (b) Bei Bora supermarket uses a point of sale terminal (POS) to serve its customers. Describe **two** keying in devices that the supermarket could use. (4 marks)

- (c) Explain **two** reasons for the preference of a star topology configuration. (4 marks)
- (d) A technician installed a network operating system to an institute's computers. Outline **three** features of this software. (3 marks)
15. (a) Outline **three** types of utility programs used in computers. (3 marks)
- (b) John used shielded twisted pair cable in a computer network. Explain **three** advantages of using cable. (6 marks)
- (c) Pauline would like to buy a user friendly software for her company. Describe **three** characteristics of such software. (6 marks)

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