

1341A  
INFORMATION COMMUNICATION  
TECHNOLOGY I (THEORY)  
Paper 1  
November 2022  
Time: 1 hour



THE KENYA NATIONAL EXAMINATIONS COUNCIL  
BUSINESS EDUCATION SINGLE AND GROUP CERTIFICATE  
EXAMINATION

STAGE I

INFORMATION COMMUNICATION TECHNOLOGY  
(THEORY)

Paper 1

1 hour

INSTRUCTIONS TO CANDIDATES

*This paper consists of two sections A and B.*

*Answer ALL the questions in section A and any FOUR questions from Section B in the answer booklet provided.*

*Candidates to answer all the questions in English.*

**This paper consists of 3 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 (20 marks)**

*Answer ALL the questions in this section*

1. Outline **two** advantages of using a mouse over a keyboard as a computer input device. (2 marks)
2. Explain **one** reason that makes organisations opt to use e-mail for communication. (2 marks)
3. A student uses a laptop for his studies. Outline **two** regular procedures he should adapt in order to care for the laptop. (2 marks)
4. State **one** activity carried out by each of the following arithmetic logic unit (ALU) component of the computer central processing unit:
  - (i) arithmetic; (1 mark)
  - (ii) logic. (1 mark)
5. Differentiate between *disk formatting* and *disk partitioning* as used in disk preparation. (2 marks)
6. A secretary bought a computer for personal use. Describe **one** type of file that she is likely to use in this computer. (2 marks)
7. James, a system administrator, assigned a strong password to all system users. Outline **two** characteristics of such password. (2 marks)
8. Differentiate between a *router* and a *bridge* as used in computer networking. (2 marks)
9. John suspected that his computer was infected by a virus. Outline **two** symptoms that he is likely to have observed. (2 marks)
10. Outline **one** ergonomic practice when using each of the following computer devices:
  - (i) Visual Display Unit; (1 mark)
  - (ii) keyboard. (1 mark)

**Section B (50 marks)**

Answer **FOUR** questions from this section

11. (a) Outline **two** importance of extranet to an organisation. (2 marks)
- (b) Outrival Institute intends to connect its Local Area Network to the internet. Outline **four** factors that the institute would consider when choosing an Internet Service Provider. (4 marks)
- (c) Janet, a system administrator at My-choice Company, would like to install modern physical security devices. Describe **two** such devices. (4 marks)

12. (a) Outline **two** benefits of using electronic funds transfer (EFT) to an organisation. (2 marks)
- (b) Mercy, a secretary, has mobility impairment. Explain **two** adjustments that could be made to ensure her optimal use of a computer. (4 marks)
- (c) Figure 1 shows a computer in an office. Use it to answer the question that follows.



Figure 1

Describe **two** approaches that could be used to classify this computer. (4 marks)

13. (a) State **two** types of main memory. (2 marks)
- (b) The following are keys in a typical computer keyboard; *Caps lock, Ctrl, F3, Insert*. State the category for each of the keys. (4 marks)
- (c) Master Institute intends to upgrade its computer software. Explain **two** factors that the institute would consider when acquiring the new software. (4 marks)
14. (a) Outline **two** reasons for uniquely naming computer files and directories. (2 marks)
- (b) Differentiate between *single-tasking* and *multi-tasking* operating systems. (4 marks)
- (c) With the aid of a diagram, describe hybrid computer network topology. (4 marks)
15. (a) State an example of medium used in each of the following computer storage category:
- (i) internal; (1 mark)
- (ii) external. (1 mark)
- (b) An ICT technician connected a new printer to a computer. Describe **two** approaches he could use to install the printer software. (4 marks)
- (c) Explain each of the following terms as used in internet:
- (i) surfing; (2 marks)
- (ii) search engine. (2 marks)

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