1920/101 INTRODUCTION TO INFORMATION COMMUNICATION TECHNOLOGY July 2019 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 in 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.

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SECTION A (40 marks)

Answer ALL the questions in this section

1.	Explain each of the following activities as used in data processing:	
	(i) summarize;	
	(ii) classify.	(4 marks)
2.	Distinguish between analogue computers and digital computers.	(4 marks)
3.	Pitso Company chose to use in-house development method for its application software, two benefits the company would derive from the use of this method.	Explain (4 marks)
4.	Outline four characteristics of second generation computers.	(4 marks)
5.	Josh saved each of the following files on his computer.	
	Josh.rtf, josh.docx, josh.accdb, josh.xls	
	State the application software that he used to create each of the files.	(4 marks)
6.	Describe each of the following types of computer networks:	
	(i) wide area network;	
	(ii) private area network.	(4 marks)
7.	Describe each of the following types of computer software:	
	(i) open source;	
	(ii) proprietary.	(4 marks)
8.	A certain shop installed a point of sale system for its operations. Outline four input develould be included in the system.	vices that (4 marks)
9.	A company that has branches all over the country intends to install a distributed data presystem to support its operations. Explain two benefits of this system to the company.	rocessing (4 marks)
10.	Differentiate between trojan horse and logic bomb viruses in computers.	(4 marks)

SECTION B (60 marks)

Answer any FOUR questions in this section

11: (a) Outline three physical measures that could be put in place to ensure data security in an organization. (3 marks) Joel intends to acquire an operating system for his computer. Explain three factors other than cost, that he should consider when acquiring the software. With the aid of a diagram, outline the basic electronic components of a computer system. Outline three advantages of peer-to-peer type of computer network. 12. (a) (3 marks) Describe each of the following types of file organization methods in a computer system: (b) serial: (ii) sequential; (iii) random. (6 marks) An ICT technician has been tasked to set up a computer network for a certain company. Explain three types of network topologies that he could use. 13. (a) Kurgan Company has connected all its computers to uninterruptible power supply devices. Outline three benefits of using these devices. (3 marks) (b) Outline two advantages of satellite communication media. (2 marks) With the aid of a diagram, describe coaxial cable as used in computer networking. Computer users suffer from various injuries as a result of prolonged use of computers. Explain three types of such injuries. (6 marks) 14. (a) In a certain company some employees have been suspected of engaging in unethical behavior while using computers. Outline three observations that could have raised this suspicion. (3 marks) (b) With the aid of a diagram, outline the stages of data processing. (6 marks)

Most companies have embraced the use of mobile money transfer in their financial

operations. Explain three advantages of this approach to the companies.

(6 marks)

- 15. (a) Describe each of the following devices as used in computer networking:
 - (i) gateway;
 - (ii) router;
 - (iii) switch.

(6 marks)

- (b) Football associations in the world have integrated the use of Information Communication Technology to monitor ongoing games. Explain three ways in which the technology is used. (6 marks)
- (c) Outline three reasons that would necessitate an organization to adopt the use of external hard disks in their operations. (3 marks)

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