1920/201 COMPUTER MAINTENANCE AND SUPPORT July 2019 Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

CRAFT CERTIFICATE IN INFORMATION TECHNOLOGY

MODULE II

COMPUTER MAINTENANCE AND SUPPORT

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.

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SECTION A (40 marks)

Answer ALL the questions in this section.

1.	(i) Explain the term <i>pixel</i> as used in computer monitors.	(2 marks)
	(ii) Describe platter as used in magnetic disks.	(2 marks)
2.	Differentiate between DIMM and SIMM as used in computer memory.	(4 marks)
3.	With the aid of examples, outline two roles of an address bus in a computer.	(4 marks)
4.	Outline four functions of a power supply unit in computers.	(4 marks)
5.	Explain two reasons for donating old computers to learning institutions.	(4 marks)
6.	Distinguish between solid state memories and magnetic drives in computers.	(4 marks)
7.	Explain two circumstances under which the main memory of a computer would be replaced. (4 marks)	
8.	Patricia was required to troubleshoot a computer monitor that was not displaying the graphical	
	user interface after the POST. Outline four possible causes of the problem.	(4 marks)
9.	Explain two classifications of computers according to physical size and processing speed. (4 marks)	
10.	Davis intends to carry out computer literacy training to his employees. Explain tw company could realize after training.	o benefits the (4 marks)

SECTION B (60 marks)

Answer any FOUR questions from this section.

11. (a) Figure 1 shows ports used in a computer. Identify the ports labeled (i) and (ii) stating the I/O devices that connect to each. (4 marks)

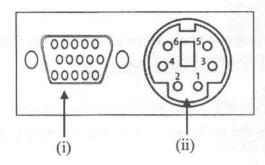


Figure 1

- (b) Paul was advised by his friend to replace a faulty processor for his computer. Explain three possible causes of the problem. (6 marks)
- (c) List two types of computer keyboard interfaces. (1 mark)
- (d) Distinguish between xeon and core- i7 processors as used in computers. (4 marks)
- 12. (a) Polly was required to adjust the clock of a computer. Outline **three** methods that she could have used. (3 marks)
 - (b) Ben was called to assist his colleague whose USB mouse for a desktop computer could not move the pointer on the screen. Outline **four** possible guidelines that he could use to fix the problem. (4 marks)
 - (c) High level formatting for storage disks is normally done by users. Outline **four** functions played by this type of formatting. (4 marks)
 - (d) Differentiate between *safe mode* and *normal* start-up modes as used with computers. (4 marks)
- 13. (a) Doreen was required to identify different application software used in her company.

 List **four** examples of software that she could have identified. (4 marks)
 - (b) Outline **five** safety measures that could be used to protect information stored in computers. (5 marks)
 - (c) Explain **three** circumstances under which an organization should consider conducting an urgent computer maintenance exercise for its computers. (6 marks)

- 14. (a) Nelson inserted a flash disk in a computer to print out a stored document but the error message 'USB not recognized' appeared on the screen of his computer.
 - (i) Explain the cause of the error message.

(2 marks)

- (ii) Explain **two** precautions he needs to take with such an error to safeguard his data. (4 marks)
- (b) Loise installed a computer game program that she borrowed from her friend but after one week she noted that her computer was hacked.
 - (i) Identify this type of attack.

(1 mark)

- (ii) Explain **two** strategies that she could use as a remedy for the attack. (4 marks)
- (c) Ruth used attended software installation method to install an operating system on her computer. Outline **four** advantages that could have influenced her to use this method.

 (4 marks)
- 15. (a) A motherboard uses firmware on the BIOS chip.
 - (i) Outline three functions of this firmware.

(3 marks)

- (ii) Explain **two** strategies that could be used to maintain performance of the firmware. (4 marks)
- (b) Alice was required to describe computer troubleshooting methods in a job interview.

 Outline **four** methods that she could have mentioned. (4 marks)
- (c) Figure 2 shows a part of a motherboard. Outline the function of each of the parts labeled (i) and (ii). (4 marks)

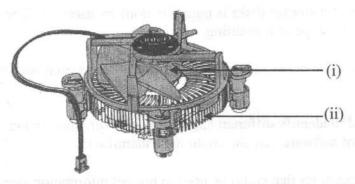


Figure 2

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