Name:	/
1920/201	Candidate's Signature
COMPUTER MAINTENANCE AND SUPPORT July 2015	Date:
Time: 3 hours	



# THE KENYA NATIONAL EXAMINATIONS COUNCIL

# **CRAFT CERTIFICATE IN INFORMATION TECHNOLOGY**

#### **MODULE II**

## COMPUTER MAINTENANCE AND SUPPORT

#### 3 hours

### INSTRUCTIONS TO CANDIDATES

Write your name and index number in the spaces provided above.

Sign and write the date of examination in the spaces provided above.

This paper consists of two sections; A and B.

Answer ALL the questions in Section A on the spaces provided on the question paper.

Answer any FOUR of the FIVE questions in Section B on the spaces provided on the question paper.

Candidates should answer the questions in English.

### For Examiner's Use Only

Section	Question	Maximum score	Candidate's score
A	1-10	40	
<del></del>	11	15	
	12	15	
В	13	15	
	14	15	
	15	15	
	Te	otal score	

This paper consists of 10 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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Turn over

SECTION A (40 marks)

Answer ALL the questions from this section in the spaces provided.

	******	the following computer acronyms in full.	
	(i)	CRT;	(1 mark
	(ii)	LCD.	(1 mark)
(b)	Outlii	ne the <b>two</b> types of buses in a System Unit of a computer system.	(2 marks)
Outli	ne <b>two</b> c	differences between primary storage and secondary storage as used i	in computer. (4 marks)
Name	four co	omponents found in the computer System Unit.	(4 marks)
Descr	ibe a for	rm of maintenance, which may be carried out on each of the following system:	

1920/201

Sidil	two differences between Mini-ITX and ATX Motherboard form factor.	(4 marks
	•	
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OHC I	a installed an NTFS operating system on a computer running on FAT 32 Oper ntends to revert back to FAT 32 in order to install older software and its data, validle to the new NTFS operating system.	ating systen which is in
(a)	Write the acronym FAT and NTFS in full.	(2 marks)
(b)	Outline the procedure she would follow to revert back.	(2 marks)
Expla	in <b>two</b> ways in which computer viruses can cause loss of data in a computer.	(4 marks)
	e the function of each of the following tools when assembling a computer syst	em.
(a)	Flashlight;	(2 marks)
(b)	Tweezers.	
-,	A WOODOIG.	(2 marks)

1920/201

Turn over

	plain two ways in which electronic waste could be managed by an organisation of a new managed by an organisation of the court of the co			
(a)	Explain the function of BIOS in a computer system.	(2 marks)		
(b)	State <b>two</b> precautions that would be put in place to safeguard a computer aga fluctuation.	inst power (2 marks)		

SECTION B (60 marks)

Answer FOUR questions from this section in the spaces provided.

(a)	Tim has two computers; one with a processor labelled <i>Core i3</i> , and the second State <b>three</b> technical advantages that the processor labelled Core i7 would have	d, <i>Core</i> ve. (3 ma
(b)	State three differences between Rambus dynamic random access memory and synchronous dynamic random access memory as used in computers.	(6 ma
(c)	Susan bought a new DVD writer. When she opened the package, she noted sev booklets accompanying the DVD writer. Explain <b>three</b> uses of the information	reral sr
	in the booklets.	(6 mar

1920/201

Turn over

5

(a)	While manning the help desk, Sharon got a call from accounting department. One of the users had lost a file that she had saved to her hard drive. The user could recall the file name and the directory where she had stored the file. Explain <b>two</b> file attributes that she may use to recover the lost file.  (4 mark
	· · · · · · · · · · · · · · · · · · ·
(b)	Peter, a computer technician, prefers using a flash memory to other removable storage devices. Outline five reasons for his preference. (5 mark
<u> </u>	
(c)	Other than installing an antivirus, explain <b>three</b> ways through which an organisation could prevent computers form getting infected with viruses. (6 mark
<del></del>	(o mark
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(a)	Expl orgai	ain the use of barcodes in the management of hardware inventory in an nisation.	(3 marks
(b)	Figur	re 1 shows a component in a computer system. Use it to answer the quest	ions that
	Figur (i)	State the function of the component.	(1 mark)
		Outling three processing that the 111	nponent
	(ii)	Outline <b>three</b> precautions that should be put in place to protect the confrom damage while in use.	(3 marks)
	(ii)	from damage while in use.	
	(ii)	from damage while in use.	

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(a)	install	ed it. Ou isation u	ician ob	served the	he follow	ing error	messages	during th	e every t	(5 ma

(ii)	No boot device present;	(2 marks
(iii)	Cannot read CAB Files.	(2 marks
Figur follo	re 2 shows a section of a computer hard disk. Use it to answer the ow:	questions that
Figur	•	
(i)	Identify the parts labelled I and II.	(2 marks)
(ii)	Outline two safety precautions when handling the disk	(2 marks)
		hot seasons:
(i)	Explain the reason for this behaviour.	(2 marks)
(ii)	Outline <b>two</b> problems that may be caused by this behaviour.	(2 marks)
	Figur (i)  John (i)	(iii) Cannot read CAB Files.  Figure 2 shows a section of a computer hard disk. Use it to answer the of follow:  I. II.  Figure 2  (i) Identify the parts labelled I and II.  (ii) Outline two safety precautions when handling the disk  John observed that his computer processor fan tends to run faster during (i) Explain the reason for this behaviour.

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	(iii)	State <b>one</b> way to minimise the challenges that may be brought about by this behaviour. (2 marks)
(b)	Institu	go Technical Training Institute received a donation of used computers. The ate's technician was advised to upgrade some of the computers. State three onents in the computers that could be upgraded, giving a reason for your answer in case.  (9 marks)
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