THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL CERTIFICATE OF SECONDARY EDUCATION EXAMINATION

036/1

INFORMATION AND COMPUTER STUDIES 1

(For School Candidates Only)

Time: 3 Hours

Tuesday, 15th November 2016 p.m.

Instructions

- This paper consists of sections A, B and C.
- Answer all questions in sections A and B and two (2) questions from section C.
- Cellular phones are not allowed in the examination room.
- Write your Examination Number on every page of your answer booklet(s).



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SECTION A (30 Marks)

Answer all questions in this section.

1. For altern	each of the following in natives provided and write	tems (i) $=$ (x), choose the interpolation in the interp	se the most tern number in	your answer booklet.
(i) A	network hardware devic	e that o	communicates v	with computers	using telephone lines is
Α	Switch	C	Modem	E	NIC
В	Gateway		Router		
(ii) C	omputer specialists work	ing in	software houses	are known as	
	Hackers	C	Engineers	E	Administrators
В	Programmers	D	Technician		
	hich of the following ke	yboard	keys executes	he function of	'Save as ' command in
	ost programs?				
	F10	C	F12	E	F8
В	FII	D	P9		
(iv) T	he process of restarting a	compu	ter is called		
	Cold booting	C	Warm booting	E	Hard booting
В	Simple booting	D	Permanent box	ting	
(a m				v v s	
	he equivalent formula for	=SUM			
	=A11+A12+A13		D	= A10+A11+	
	≈A10+A13		E	=A10+A12+	A13
C	=A10:A13				
	software program that en	ubles a	user to locate	and retrieve spe	ecific information on the
	Internet		D	Google	
	*****		E	Google	- device-
	Search engine Yuhoos		E	Application s	onware
water in	tantakan Pananaki an m	nd toni	est innerations i	n the CDU	
(vii) Ca	lculations, comparison a	na roga	car operations i	n the CPD are	performed by
	Calculation unit			Annmetic and	d logical unit
	Computer calculator		E	Calculation a	nd logical unit
C	Althmetic unit				
(viii) Wi	nat is the meaning of the	term w	orkbook as use	d in spreadshe	et?
Α	Collection of worksheet	5.	D	Collection of	
В	Collection of spreadshed	ets.	E	Collection of	rows and columns.
C	Collection of cells.				

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(ix)	Co	inputers which are characterized	by superior h	indware and software were developed in
	the			
	Α	First generation	D	Fourth generation
	В	Second generation	E	Fifth generation
	C	Third generation		
(x)	On cal		sing functions	are contained on a single electronic chip
	A	Arithmetic logical unit	D	Transistor
		Microprocessor	E	Integrated circuits
	C	Silicon chip		

 Match the following responsibilities in List A with their corresponding career opportunities in List B by writing the letter of the correct option beside the item number in your answer booklet.

	List A		List B
(i)	Maintain and troubleshoot network related	A	Computer operator
	problems.	В	Computer technician
(ii)	Answer user inquiries regarding computer software or hardware operation to resolve	C	System analyst
	problems.	D	Computer programmer
(iii)	Sets up security measures needed to control access to information.	E	Computer trainer
(iv)	Monitors access and use of internet connection	F	Information system manager
	by enforcing security measures.	G	Database administrator
(v)	Keep up-to-date Computer records (log files) of all information processing activities.	н	Webmaster
(vi)		1	Network administrator
	related problems.	3	Administrator
vii)	Customize commercial application packages to suite the organizations needs.	K	Software engineer
(iii)	Maintain and update software to meet day-to-	L	Website administrator
,	day requirements while overcoming challenges.	М	Computer administrate
(ix)	Create daily backup files, test page- navigation links and moderate blog comments.	N	Internet administrator
(x)	Makes sure that all tasks in the IT department are done correctly and on time.		

3.	In the	following items, write (T) for a True statement and (F) for a False statement	
	(i)	Laser and ink jet printers are examples of non-impact printers.	
	(ii)	Slide show view is the default view from which you can manage your presentide order as well as edit specific slides.	ntations
	(iii)	Processing speed in microprocessors is measured in hertz/MegaHertz.	
	(iv)	Utility software is a kind of system software designed to configure and main computer.	tain the
	(v)	In HTML, logical tags specify exactly how the text will look.	
	(vi)	The fastest, most powerful and most expensive category of computers is call microcomputer.	ed
	(vii)	Every Microsoft access table requires a primary key field.	
	(viii)	Cold temperatures are not as dangerous to a computer as overheating is.	
	(ix)	Word processors are not limited for working with text.	
	(x)	In any document, the left and right margins must be the same.	

SECTION B (50 Marks)

Answer all questions in this section.

(a) Define the term database.

(I mark)

(b) The database below contains data about items that have been ordered from various suppliers:

CODE	SUPPLIER	DELIVERY DATE	PRICE
2140	MS12	10/6/2006	\$40,80
3023	OC53	6/6/2006	\$50,50
5620	OM81	2/10/2006	\$10.30
5620	OL44	11/8/2006	\$100.15
7210	P.021	6/6/2006	5120,50
5620	PG30	9/9/2006	\$200.40

(i) State the data types of the fields in the table given above. (4 marks)

(ii) If the search condition (CODE=5620) AND (PRICE<100) is used; write down the output using only the supplier field.

(1 mark)

(iii) Write down a search condition that will search for all items with a price more than \$50 and delivered in June.(2 marks) 5. (a) What is a computer keyboard? (1 mark)

(b) List five types of keys found on a computer keyboard. Give an example of each type. (5 marks)

(c) With examples, describe two disadvantages of automated production. (4 marks)

- (a) Mention three functional elements of the central processing unit and explain the function of each element.
 (6 marks)
 - (b) Give four types of application software.

(2 marks)

(c) Explain two effects of disposing electronic equipments to the environment. (2 marks)

(a) Give four examples of desktop publishing software available in the market today.

(2 marks)

- (b) Explain four reasons why Desktop publishing (DTP) is more preferred than a word processor? (4 marks)
- 8. The spreadsheet below describes telephone usage for accessing the internet and costs. The costs need to be calculated. The minutes are multiplied by tariff 1 to obtain the sub- total. The VAT is based on the sub-Total and the total is obtained by adding the Sub-Total to the VAT.

10		8	C	D	E	F	6	H
1							Tariff 1	VAT
2							\$0.50	14%
3,								
4		Minutes	Sub- Total	VAT	Total			
5	Monday	9	\$4.50	\$0.63	\$5.13			
6	Tuesday	5						Ī
7	Wednesday	7						
8	Thursday	6						
9	Friday	10						
10								
11	Total	37						
12	Average	7.4						1

(a) What formula was used to find the total time spent on the Internet? (2 marks)
(b) What formula was used to find the average time spent on the Internet? (2 marks)
(c) Using absolute referencing, what formula was used to find sub-total? (2 marks)
(d) Using absolute referencing, what formula was used to find VAT? (2 marks)

9. (a) Explain two stages of Multimedia application development. (4 marks)

(b) Describe two categories of computer memory.

(c) Explain how self employment can be achieved by using computer or other ICT devices.

(2 marks)

(2 marks)

SECTION C (20 Marks) Answer two (2) questions from this section.

- "The internet is a harmful tool to man". What are your opinions? Describe only four points.
 (10 marks)
- Analyze four strengths and four weaknesses of the cables used for configuring communication networks.

 (10 marks)
- With examples, explain three types of lists used in HTML including the definition of the term HTML.

 (10 marks)