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

1. This paper consists of sections A, B and C.
2. Answer **all** questions in sections A and B and **two (2)** questions from section C.
3. Cellular phones are **not** allowed in the examination room.
4. 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 each of the following items (i) – (x), choose the most correct answer among the alternatives provided and write its letter beside the item number in your answer booklet.

(i) A network hardware device that communicates with computers using telephone lines is called

A Switch
B Gateway
C Modem
D Router
E NIC

(ii) Computer specialists working in software houses are known as

A Hackers
B Programmers
C Engineers
D Technician
E Administrators

(iii) Which of the following keyboard keys executes the function of 'Save as ' command in most programs?

A F10
B F11
C F12
D F9
E F8

(iv) The process of restarting a computer is called

A Cold booting
B Simple booting
C Warm booting
D Permanent booting
E Hard booting

(v) The equivalent formula for =SUM(A10:A13) without the use of function is

A =A11+A12+A13
B =A10+A13
C =A10:A13
D = A10+A11+A12+A13
E =A10+A12+A13

(vi) A software program that enables a user to locate and retrieve specific information on the WWW is known as

A Internet
B Search engine
C Yahoos
D Google
E Application software

(vii) Calculations, comparison and logical operations in the CPU are performed by

A Calculation unit
B Computer calculator
C Althmetic unit
D Althmetic and logical unit
E Calculation and logical unit

(viii) What is the meaning of the term workbook as used in spreadsheet?

A Collection of worksheets.
B Collection of spreadsheets.
C Collection of cells.
D Collection of sheets.
E Collection of rows and columns.

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(ix) Computers which are characterized by superior hardware and software were developed in the

A First generation
B Second generation
C Third generation
D Fourth generation
E Fifth generation

(x) On a personal computer all processing functions are contained on a single electronic chip called

A Arithmetic logical unit
B Microprocessor
C Silicon chip
D Transistor
E Integrated circuits

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

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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 presentations slide order as well as edit specific slides. _____

(iii) Processing speed in microprocessors is measured in hertz/MegaHertz. _____

(iv) Utility software is a kind of system software designed to configure and maintain the computer. _____

(v) In HTML, logical tags specify exactly how the text will look. _____

(vi) The fastest, most powerful and most expensive category of computers is called microcomputer. _____

(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.

4. (a) Define the term database. **(1 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	PO21	6/6/2006	$120.50
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)**

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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)**

6. (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)**

7. (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.

ID	A	B	C	D	E	F	G	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						
7	Wednesday	7						
8	Thursday	6						
9	Friday	10						
10								
11	Total	37						
12	Average	7.4						

   (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. **(2 marks)**
   (c) Explain how self employment can be achieved by using computer or other ICT devices. **(2 marks)**

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SECTION C (20 Marks)

Answer two (2) questions from this section.

10. "The internet is a harmful tool to man". What are your opinions? Describe only four points. **(10 marks)**

11. Analyze four strengths and four weaknesses of the cables used for configuring communication networks. **(10 marks)**

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

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