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

036/1 **INFORMATION AND COMPUTER STUDIES 1**
(For Both School and Private Candidates)

TIME: 3 Hours *Monday 20th October 2008 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. Show all steps in your working, giving answers at each stage.
4. Electronic calculators are **not** allowed in the examination room.
5. Cellular phones are **not** allowed in the examination room.
6. 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 items (i) – (x) choose the correct answer among the given alternatives and write its letter beside the item number.

(i) One Gigabyte (1GB) is equivalent to
- A. 2^{10}MB
- B. 2^{10}byte
- C. 2^{10}TB
- D. 2^{10}KB
- E. 2^{10}bits

(ii) The following can help to identify a hyperlink while browsing a webpage.
- A. Black and underlined words
- B. Bolded and italicised words
- C. Quoted and underlined words
- D. Blue and underlined words
- E. Maroon and underlined words

(iii) The reception desk at any organisation is the same as..... on the computer.
- A. Window icon
- B. Desktop icons
- C. Desktop window
- D. Desktop locator
- E. Desktop bar

(iv) In excel, what sign begins when entering a simple formula in the cell?
- A. #
- B. =
- C. /
- D. \
- E. @

(v) Which file system extension is used by default when saving a new document in excel?
- A. txt
- B. rtf
- C. xls
- D. doc
- E. ppt

(vi) Which of the following is primarily an output device?
- A. Monitor
- B. Keybaord
- C. RAM
- D. Processor
- E. CD ROM

(vii) The type of network topology whereby data flows in only one direction is known as a
A. Ring
B. Linear
C. Star
D. Bus
E. Wan.

(viii) One of the following actions will send an application window on the task bar
A. Resize
B. Close
C. Maximize
D. Minimize
E. Save

(ix) In IP addresses, maths.udsm.ac.tz, represents
A. Domain
B. Webpage
C. Organisation
D. Computer name
E. Website.

(x) Which of the following is not important when searching for information on the internet?
A. Keywords specification
B. Use of common words
C. Operating system user knowledge
D. Search engine user knowledge
E. Use of upper case letters **(10 marks)**

2. Match the items or phrases in list A with the responses in list B by writing the letter of the correct response beside the item number.

LIST A
(i) Back up
(ii) Intranet
(iii) Numlock
(iv) HTML
(v) Multimedia
(vi) Bytes
(vii) Primary Key
(viii) Pixel
(ix) Personal Digital Assistants
(x) Web browser

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LIST B
A. A kind of computer virus
B. Uniquely identify records
C. Largest WAN in the world
D. Used to open computer cases
E. Network within an organisation

F Controls arithmetic operations in the computer
G Used to create web pages
H Collection of sounds, pictures and text animation
I Used to activate numbers and arithmetic operators
J Creates characters in the computer
K Used to load web pages
L Information security mechanism
M Input devices
N Software used to detect network errors
O Shows hidden symbols in the computer
P A dot expressing a portion of an image
Q Fifth generation of computers
R Bringing back files
S Fourth generation of computers
T Keyboard and mouse **(10 marks)**

3. In the following items, write **(T)** for true statements and **(F)** for false statements.

(a) A bit is the smallest unit of data.
(b) The quality of the computer depends on the speed as well as storage capacity.
(c) A blinking line in a text or document is called a cursor.
(d) Deleting a shortcut results to the deletion of the whole document saved in a storage media.
(e) An item of data in a database is called a field.
(f) Internet is an example of a Metropolitan area Network.
(g) A highlighted text is copied by pressing CTRL + C and pasted by pressing CTRL + V.
(h) Office assistant appears only when creating common documents using word processor.
(i) A presentation file might contain audience, hand outs, speaker notes and electronic slides.
(j) In Ms excel, if the formular "=B4*C4" is in cell D4, the formular assigned to cell D5 is "=B5*C5". **(10 marks)**

SECTION B (50 marks)
Answer **All** questions

4. (a) Outline any three (3) ways you use to create a table in microsoft word application.

(b) (i) With the use of examples describe two (2) types of data in computer.
(ii) Differentiate between data and information. **(8 marks)**

5. (a) What is an output device?
(b) With examples, briefly explain specialized application of computers in the following areas.
(i) Banking
(ii) Library
(iii) Supermarkets
(iv) Schools
(v) Hospitals **(7 marks)**

6. (a) Differentiate telnet from FTP (File Transfer Protocol)
(b) Define the following terms:
(i) Dumb terminal
(ii) Intelligent terminal
(iii) Hypertext Markup language (HTML)
(c) Give four (4) advantages of electronic word processor over a type writer. **(9 marks)**

7 (a) Using your spreadsheet knowledge, indicate the data type that will be assigned in the following entries
(i) December 14, 2008
(ii) Total scores
(iii) December 14,2008
(iv) "Average(A3:E3)

(b) Test scores

	A	B	C	D	E	F
1	Names	Test1	Test2	Test3	Total	Average
2	James	46	51	70		
3	Hamis	66	50	47		
4	Miriam	70	77	63		
5	Moses	80	76	70		
6	Jane	90	82	78		

Using the test scores worksheet above,

(i) generate a formula for calculating total scores for each student
(ii) generate a formula for calculating average for each student
(iii) identify the cell reference for maximum score
(iv) identify the cell reference for the least score. **(8 marks)**

8. (a) Write down **three (3)** differences between a web browser and a search engine, giving examples in each case

(b) (i) Define computer security
(ii) Outline **two (2)** measures you would use to secure a computer hardware and data. **(9 marks)**

9. (a) What is a software?
(b) Mention and explain briefly **four (4)** functions of an operating system. **(9 marks)**

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SECTION C (50 marks)

Answer **two (2)** questions only

10. (a) What is Information Communication Technology (ICT)

(b) The Advent of ICT in Tanzania has brought both positive and negative impacts. Clarify this statement by giving **two (2)** examples in each case. **(10 marks)**

11. With the aid of a clearly labelled diagram, explain how a computer system works. **(10 marks)**

12. (a) Give **two (2)** points to distinguish a database from a presentation.

(b) Outline **three (3)** ways you could use in creating a presentation. **(10 marks)**

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