*Candidate's Examination No.....*

**THE UNITED REPUBLIC OF TANZANIA**

**MINISTRY OF EDUCATION AND VOCATIONAL TRAINING**

**FORM TWO SECONDARY EDUCATION EXAMINATION, 2011**

**0143** **INFORMATION AND COMPUTER STUDIES**

**TIME: 2½ HOURS**

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**INSTRUCTIONS**

1. This paper consists of sections A, B and C.
2. Attempt **ALL** questions.
3. Write your examination number at the top right corner of every page.
4. **ALL** writing must be in blue or black ink **EXCEPT** drawings which must be in pencil.
5. **ALL** answers must be written in the spaces provided.
6. Cellphones and calculators are not allowed in the examination room.

| **FOR EXAMINER'S USE ONLY** | | |
|---|---|---|
| QUESTION NUMBER | SCORE | INITIALS OF EXAMINER |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| **TOTAL** | | |

This paper consists of 8 printed pages.

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**SECTION A (40 MARKS)**

1. Choose the correct answer from each of the following items and write its letter in the box provided.

(i) An input device:
A. accepts data and converts it into a form suitable for computer processing
B. allows the computer to manage its own resources
C. stores software and data in a form that is permanent
D. transmits computer digital signal over the telephone lines.

(ii) Utility programs are useful for:
A. backup, data recovery, virus protection and data compression
B. handling input and output signal of a computer
C. managing memory of a computer during the starting and turning off
D. quick setup of printer and scanner devices.

(iii) RAM is a volatile memory, the term volatile means:
A. data in RAM is not permanent and can be changed
B. data in RAM is permanent and cannot be changed
C. RAM can multifunction easily and is very expensive
D. RAM contains programs for starting the computer.

(iv) Which of the following must be done first before an image is deleted completely?
A. Double click the image
B. Move the image
C. Resize the image
D. Select the image.

(v) To boot a computer means to:
A. install a computer
B. service a computer
C. start/restart a computer
D. switch off a computer.

(vi) A hyperlink means:
A. a text or picture that has a dynamic properties on the page
B. a text or picture that links one page to another on the internet
C. scrolling text or picture on the internet which has dynamic properties
D. scrolling text or picture on the website.

(vii) The electronic mail is made up of two parts, a heading and the message. The heading is made up of:
A. the sender's and the receiver's email address
B. the subject and the signature
C. the title and owner of the email
D. yahoo.com and hotmail.com.

(viii) Information and communication technology refers to:
A. application of computers in communication
B. modern computers, TV and mobile phones being used every where
C. modern technology that support processing and dissemination of information
D. uses of the Internet, cellphones and TV's in day to day activities.

(ix) Computers consist of hardware and software. The hardware refers to:
A. central processing unit and monitor
B. collective term for physical parts of the computer
C. instruction for operating computer devices
D. system unit, mouse and keyboard.

(x) A secret word known to the computer user and identified by the computer is called:
A. address
B. password
C. profile name
D. user name.

(xi) When data is required to be stored on a long term basis, it is stored on:
A. main storage
B. monitor
C. primary storage
D. secondary storage.

(xii) The following are functions of the UPS except:
A. preventing sudden power surges to destroy the computer
B. providing stable power supply
C. supplying power to the computer during blackouts and brownouts
D. used as the main power source for the computer.

(xiii) To log on to the network, a user must enter:
A. full name and password
B. full name and user name
C. user name and password
D. user name and server name.

(xiv) Which of the following items was used in the second generation of computer?
A. Large scale integrated circuit
B. Small scale integrated circuit
C. Transistor
D. Vacuum tube.

(xv) The following are traditional ways of disseminating information except:
A. fire
B. horns
C. internet
D. messenger.

(xvi) A byte is a collection of ..... bits.
A. 4
B. 8
C. 16
D. 32

(xvii) The computer keyboard has a key that is used for spacing. The key is called:
A. back space
B. enter
C. shift
D. space bar.

(xviii) The shortcut keys you would use to highlight or select the whole document in a word processing program is:
A. ctrl + A
B. ctrl + B
C. ctrl + S
D. ctrl + Z

(xix) In a spread sheet program the intersection of column and row is called:
A. cell
B. data
C. merge
D. range.

(xx) One significant role of a computer network is to:
A. allow hackers in the network
B. enable sharing of resources on the network
C. hinder sharing of resources on the network
D. limit communication of computer within the network.

2. Match each item in Column A with a response in Column B by writing its letter below the number of the corresponding item in the table provided.

| COLUMN A | | COLUMN B |
|---|---|---|
| (i) | Ability to perform many tasks at once | A. Band width |
| (ii) | A characteristic of communication channel that determines the rate at which data can be transmitted over the channel | B. Cell<br>C. Cell reference<br>D. Central processing unit |
| (iii) | Converts computer's digital signals to analogy signals and vice versa | E. Chart |
| (iv) | Enables bank customer to withdraw money in an Automatic Teller Machine | F. Compiling<br>G. Credit Card |
| (v) | Generates images from the computer using a very fine dust called toner | H. Debugging |
| (vi) | Graphical presentation of worksheet data to make easier understanding | I. Disk<br>J. Dot Matrix Printer |
| (vii) | Is a combination of a column letter and row number | K. Identity Card |
| (viii) | Locating and correcting errors in a computer program | L. Laser printer<br>M. Modem |
| (ix) | Part of the computer system that interprets instructions, performs calculations and directs the input, storage and output operations | N. Multi tasking<br>O. Multi user<br>P. Scanner |
| (x) | The component of a computer system where programs and data are stored when not in use. | |

**ANSWERS**

| **COLUMN A** | (i) | (ii) | (iii) | (iv) | (v) | (vi) | (vii) | (viii) | (ix) | (x) |
|---|---|---|---|---|---|---|---|---|---|---|
| **COLUMN B** | | | | | | | | | | |

3. The following statements are either correct or not correct. Write **TRUE** for a correct statement or **FALSE** for a statement that is not correct.

(i) Magnetic disks and Magnetic tapes are examples of primary storage devices. .....

(ii) Print preview provides a miniature view of how a document looks like when it is printed. .....

(iii) Antivirus is a computer program designed purposely to destroy files and user information. .....

(iv) A hardware is a mathematical and electronic device which we can see and touch. .....

(v) A key that is used to erase characters at the right side of a cursor is called delete key. .....

(vi) Auto correct, thesaurus and tracking changes are terms used to edit the formula. .....

(vii) A part of the computer that executes program instructions is known as the memory. .....

(viii) An integrated circuit is one of the electronic components used in the first generation of computers. .....

(ix) A font refers to designs and sizes of characters in a document.....

(x) A spelling checker element of word-processing will catch all errors made by the user. .....

## SECTION B (40 MARKS)

4. (a) Differentiate between the following terms as used in Information and Computer Studies:

(i) Header and Footer

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(ii) Application software and System software

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(iii) Formula and Function

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(iv) Web page and Home page

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(v) Search engine and Internet

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(b) Fill in the blanks using the list provided in the box.

| Data, output, hardware, processing, computer, software, input, information, keyboard. |
|---|

The (i) ..... of one system is the input of another. Thus every system that processes data can be divided into three stages,

(ii) ..... or receiving data, processing data and output information. In addition to these functions, the system is capable of retaining the processed information. To get (iii) ..... from the computer data is put into the computer and processed according to the given set of instructions and gives out information. This set instructions is known as (iv) ..... while the physical parts of the computer which can be touched are known as (v).....

(c) You have been given only four numbers 4.22, 25, 0.71 and 48 to be typed into the worksheet of Microsoft excel program in cells A2, B2, A3, and B3 respectively.

(i) Create a formula structure that will compute the product value.

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(ii) Create a formula structure that will compute the average value.

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(iii) Create a formula structure that will compute the total value.

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(d) Give two advantages of an electronic spreadsheet over manual spreadsheets.

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(e) (i) What is information dissemination?

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(ii) List four common sources of information.

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**SECTION C (20 MARKS)**

5. Write an essay on the negative effects of the Internet on our culture.

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