

**MOROGORO REGION**  
**FORM IV MOCK EXAMINATIONS**  
**INFORMATION AND COMPUTER STUDIES 1**  
**(THEORY)**

036/1

TIME: 3:00 HRS    May 2016

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**INSTRUCTIONS**

1. This paper consists of sections A, B and C.
2. Answer all questions in section A, B and two questions from section C.
3. Show all steps involved in arriving at the correct answer
4. 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)

### SECTION A. (30 marks)

- i) A software program that is used for accessing, retrieving, presenting and traversing information resources on the web using URL.
- A. Search engine
  - B. Web World Wide
  - C. Web browser
  - D. ISP
- ii) Cells A4, A7, C4, C5 and C7 contains values 4, 4, 9, 2 and 3 respectively. Then in cell D4 a formula,  $=C5*(A4+A7)-(C4/C7)$  is entered. What will be the value for cell D?
- A. 13
  - B. 10
  - C. 12
  - D. 11
- iii) When you see a cell with a red triangle in the top corner, what does this signify?
- A. There is a comment associated with the cell
  - B. There is an error in the cell
  - C. The font colour for the text in the cell is red
  - D. A formula cannot be entered into the cell
- iv) Using keyboarding skills to produce documents such as letters, reports, manuals and newsletters.
- A. WYSIWYG
  - B. Word Processing
  - C. Word Wrap
  - D. Alignment
- v) What happens when you press Ctrl + X after selecting some cells in Excel?
- A. The cell content of selected cells disappears from cell and stored in clipboard
  - B. The cells selected are marked for cutting
  - C. The selected cells are deleted and the cells are shifted left
  - D. The selected cells are deleted and cells are shifted up
- vi) What do we call a computer program that organizes data in rows and columns of cells? You might use this type of program to keep a record of the money you earned moving lawns over the summer.
- A. Spreadsheet program
  - B. Database program
  - C. Word processor program
  - D. Desktop publisher program

- x) ROM is temporary (volatile) storage because its content disappears when the computer is switched off.

3. Match the items of **LIST A** with their correspondent in **LIST B** by writing the letter of the correct option beside the item number.

| <b>LIST A</b>            | <b>LIST B</b>   |
|--------------------------|---|
| i) Dot matrix printer    | A. Used to display data from a computer on to a large screen  |
| ii) A bar code reader    | B. Used to produce very large high quality hard copy  |
| iii) A web camera        | C. A device that receives a signal from one segment of network cleans it to remove any distortion before sending that signal to another computer. |
| iv) A light pen          | D. Used to input data through light   |
| v) Plotter               | E. Used to input numbers from a products at a POS terminal  |
| vi) Multimedia projector | F. Continuous stationery  |
| vii) Repeater            | G. High quality high volume out   |
| viii) Bridge             | H. Used to input moving pictures from a fixed position into a computer  |
| ix) Laser printer        | I. A device that selectively determines the appropriate network segment which a message is meant for delivery through address filter.             |
| x) Tracker ball          | J. Used to store photographs in a digital camera  |
|                          | K. Is an example of magnetic storage medium   |
|                          | L. Storage high definition film   |
|                          | M. Is input device mainly used by disabilities  |
|                          | N. Is used store information for future use   |
|                          | O. is used for drawing application where a graphic tablet might be too big  |

### **SECTION B (50 Marks).**

**Answer all questions in this section**

4. Office workers now use computers a lot in their work and this can cause them to suffer problems with their health. Name two possible health problems and two precautions, which could be taken to prevent them.
5. (a) What is database? Mention any three examples of database management software you know.  
(b) Describe various data types used in MS Access



- (c) Differentiate between a primary key and an index.
6. A bank is looking into a variety of security measures to protect its customers' data. It is worried that hackers may gain access and cause viruses to infect the system.
- Explain what a virus means and what it does.
  - Describe three ways in which a bank customer could protect their computer from becoming infected.
7. (a) Describe three differences between an Intranet and the Internet  
(b) Describe two applications of Internet in the area of education
8. A bookshop owner uses spreadsheet to calculate profits. This is a part of spreadsheet.

|   | A             | B                    | C                          | D                         | E           | F                      |
|---|---------------|----------------------|----------------------------|---------------------------|-------------|------------------------|
| 1 | ISBN          | Cost Price<br>(Tshs) | Selling<br>Price<br>(Tshs) | Profit per book<br>(Tshs) | Number Sold | Total Profit<br>(Tshs) |
| 2 | 0-34-080006-2 | 2200                 | 2900                       | 700                       | 32          | 22400                  |
| 3 | 0-52-154540-4 | 2600                 | 3500                       | 900                       | 45          | 40500                  |
| 4 | 0-74-879116-7 | 1500                 | 2100                       | 600                       | 32          | 19200                  |
| 5 | 0-54-081639-2 | 3300                 | 4100                       | 800                       | 8900        | 7120000                |

- Which row contains labels? .....
- Give the cell reference of the cell that contains 0-74-879116  
.....
- Give the cell reference of the cell that contains numeric data  
.....
- Write down the formula, which has been entered in cell F4  
.....
- When the spreadsheet was created, a similar formula had to go in cells F3 to F5. Tick a method that could have been used to achieve this, leaving F2 unchanged.

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

9. A head teacher wishes to publicize school activities to make his school better known in the neighborhood. He could do this by using the school's website or producing a magazine using DTP to be delivered by hand. Discuss advantages and disadvantages of each method.
10. Many banks now allow their customers to manage their accounts on-line. Discuss this development. In your answer, give one advantage and one

disadvantage to the bank as well as one advantage and one disadvantage to the customer.

11. Describe how temperature, humidity and dust can cause computer damage.