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

0361 **INFORMATION AND COMPUTER STUDIES I**

(For Both School and Private Candidates)

Time: 3 Hours **Friday, 10th November 2017 p.m.**

Instructions

1. This paper consists of sections A, B and C with a total of **twelve (12)** questions.
2. Answer **all** questions in sections A and B and **two (2)** questions from section C.
3. Cellular phones and any unauthorized materials 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 given alternatives and write its letter beside the item number in the answer booklet provided.

(i) The following are the types of data that can be used in the computer **except**
- A text
- B numeric
- C audio visual
- D physical
- E texture

(ii) Which one of **the** following is **not** an input device?
- A Keyboard
- B Mouse
- C Scanner
- D Microphone
- E Projector

(iii) Which one among the following is **not** a modern way of disseminating information?
- A Journal
- B Television
- C Whistle
- D Internet
- E Banner

(iv) The following are examples of malicious codes **except**
- A Computer Virus
- B Trojan Horse
- C Worms
- D Firmware
- E Malware

(v) The use of internet for selling and buying commodities is termed as
- A e-mail accounting
- B e-commerce
- C e-selling and buying
- D e-accounting
- E e-business

(vi) Which one of the following is an example of a browser?
- A AltaVista
- B Google chrome
- C Google
- D Yahoo
- E MSN

(vii) Which one of the following functions can return the sum of values in spreadsheet?
- A =sum(C2:C6)
- B =sum(C2+C6)
- C =sum(C2.C6)
- D =sum(C2.C6)
- E =sum(C2,C6)

(viii) A point of intersection between a row and a column in spreadsheet is known as
- A cell
- B cell reference
- C cell address
- D address bar
- E label

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(ix) The device that performs the function of signal modulation and demodulation is called
A demodulator
B modulator
C repeater
D modem
E codec

(x) Which of the following structure is used to store data items in relational database?
A forms
B macros
C tables
D reports
E labels

2 Match the following descriptions of computer peripherals in **List A** to their corresponding computer hardware in **List B** by writing the letter of the correct answer beside the item number in the answer booklet provided.

List A	List B
(i) A device that converts printed documents into electronic text without having to retype them.	A Daisy wheel printer
(ii) A printer which has removable flower-like wheel consisting of spokes with embossed characters.	B Digital camera
(iii) A printer that is expensive to buy but cheap to run.	C Dot matrix printer
(iv) Printers which are used in the point of sale terminals to print receipts and bar codes.	D Inkjet printer
(v) A printer which is very expensive to run due to the higher cost of replacing the cartridges.	E Joystick
(vi) A device which look like lever used to control a pointer on the screen.	F Laser printer
(vii) A device that is used to enter data in form of speech in the computer.	G Microphone
(viii) A type of printer grouped into the impact printer that prints by striking its pins on the ribbon placed on the paper.	H Mouse
(ix) An input device which is usually found in a laptop computer.	I Photo printer
(x) Printers which are used to print geographical, architectural and engineering drawings	J Plotters
	K Scanner
	L Thermal printer
	M Touch pad

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3. In the following items, write **TRUE** for a correct statement and **FALSE** for incorrect statement.

(i) Data manipulation is a new opportunity that the internet has made possible. _____

(ii) Hypertext markup language is a set of rules that control how data travels between server and client. _____

(iii) In Microsoft Word, it is **not** possible to perform Mathematical calculations. _____

(iv) Graphic-based and Layout-based are types of desktop publishing software _____

(v) Computers and transmission media requires communication devices for the network to be fully operated _____

(vi) A www is the world's largest library with billions of pages of materials to read _____

(vii) Action query **cannot** insert new data in data table. _____

(viii) Justification is a processing technique of adding extra spacing between words so that text fills the line length. _____

(ix) Thesaurus is an editing tool that helps the user to find words or phrases with similar meaning. _____

(x) Mail merge is a process of producing individual letters from a standard letter and data. _____

SECTION B (50 Marks)

Answer **all** questions in this section

4. (a) By giving two examples, explain the term function. **(2 marks)**
(b) Describe three parts of the function defined in part (a) above. **(3 marks)**
(c) The formula listed in one of the cell is = B4 X C4. Name and give the difference between the two types of cell references used in this formula **(4 marks)**

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- Write html codes that will display the webpage given below:

Please provide the following information

Name

Gender Female Male

Married Yes No

Comments

Submit information Send

(8 marks)

6 (a) Explain the following terms as used in presentation:
(i) Presentation program
(ii) Custom animation
(iii) Slide transition
(3 marks)

(b) Write steps required in printing a presentation hand out which contains six slides in a page.
(2 marks)

(c) Describe two importances of using electronic presentation. **(2 marks)**

7 (a) Give two characteristics of a multimedia system **(2 marks)**

(b) Explain the importance of text, image and sound in the presentation **(6 marks)**

8 (a) Define the term database query. **(2 marks)**

(b) By using a diagram, explain three types of relationship between tables in a relational database **(3 marks)**

(c) A Garage specialized in selling second hand cars uses an electronic database to store information as shown below:

Product - Details

Eng No	Model	No Doors
001	NADIA	05
002	GX-1	05
003	NOA	04
004	HIACE	06

Sales – Table

Sales ID	Eng-No	Price	Discount
S01	001	$ 500	20%
S02	002	$ 600	10%
S03	003	$ 400	15%
S04	004	$ 700	20%

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(i) Identify the primary key for each table. (1 mark)
(ii) Which field is a foreign key? (1 mark)
(iii) What type of relation exists between the two tables? (1 mark)
(iv) Write the data type for each field in sales table. (2 marks)

9. (a) State four major categories of computer network elements (components). (2 marks)
(b) Explain the function of Gateway and Repeater devices in computer network. (2 marks)
(c) Describe four importances of computer networks in an organization. (4 marks)

SECTION C (20 Marks)

Answer **two (2)** questions from this section.

10. Explain four functions of Operating System (OS) in a computer. (10 marks)

11. The introduction of computers to the society reveals many benefits; explain four advantages acquired by developing countries such as Tanzania. (10 marks)

12. Describe five components needed by the organisation to have the internet connection. (10 marks)

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