**St**u**d**e**nt's Name..........................................................................................................**

**Signature .....................................................Class &Stream.....................................**

***(Do not write your school, or Center Number anywhere on this booklet)***

**840/1**

**COMPUTER STUDIES**

**Paper 1**

**April 2019**

 21/2 hours

**EQUATORIAL COLLEGE - SCHOOL**

**Uganda Certificate of Education**

COMPUTER STUDIES

**Paper 1**

2 hours 30 minutes

**INSTRUCTIONS TO ST**U**D**E**NTS:**

*Write your names, signature, Class and Stream in the spaces above.*

*This paper consists of* **three** *Sections* **A, B** *and* **C**

*Section* **A** *contains* **20 compulsory** *objective type questions. The correct alternative* **A, B, C** *or* **D** *must be written in the box provided on the right hand side of each question.*

*Section* **B** *contains* **six compulsory** *structured questions. Answers to section* **B****must** *be written in the spaces provided in the question paper.*

*Section* **C** *contains* **three** *essay questions. Answer only* **one***. Answers to section* **C** *must be written in the answer sheet provided.*

*Any additional question(s) answered will* **not** *be marked.*

**For Examiners' Use Only**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MCQ** | **Q21** | **Q22** | **Q23** | **Q24** | **Q25** | **Q26** | **Q27** | **Q28** | **Q29** | **TOTAL** |
|  |  |  |  |  |  |  |  |  |  | **Turn Over** |

**SECTION A (20 MARKS)**

*Answer all questions in this section*

1. Which one of the following is not a storage device?

A. Flash disk

B. Memory card

C. Hard disk

D. Motherboard

1. A good password contains

A. very few characters

B. text and numbers

C. common words or names

D. only numbers

1. A light pen facility can best help computer users to........................................

A. draw pictures on the computer screen

B. play computer games

C. converts hardcopy text into bit-mapped image forms.

D. mark examinations on a computer

1. In document production a font is........................................

A. data of the same field

B. characters of the same face and shape

C. data of the same record

D. characters in the same document and file

1. The error message that will appear in a cell when the formula used contains a function which is not recognized in spreadsheet is...............................

A. ####

B. #VALUE!

C. #NAME?

D. #REF!

1. The process of checking whether essential computer peripherals are attached and operational is called................................

A. configuration.

B. CMOS.

C. POST.

D. defragmentation.

1. Which of the sets below contains characteristics of advancement in computer technology?

A. Smaller in size, faster and more expensive.

B. Bigger in size, faster and cheaper.

C. Bigger in size, more expensive and faster.

D. Smaller in size, faster and cheaper.

**Turn Over**

1. Computer maintenance, upgrade and configuration utilities are accessed through......................................................

A. control panel

B. network manager

C. system registry

D. my computer

1. The lowest level language of a computer is....................................

A. BASIC

B. FORTRAN

C. MACHINE

D. COBOL

1. The abbreviation MIS in system analysis stands for................................

A. Memory Interface System.

B. Management Information System.

C. Memory Interface Structures.

D. Management Information Support.

1. The ........................... will enable users to optimize personal computers.

A. utility routines

B. operating system

C. device drivers

D. programming languages

1. The service needed to transfer or upload files on the Internet Service Provider is called.................................

A. HTTP.

B. FTP.

C. IP.

D. HTML.

1. The first computing device used to perform arithmetic calculations is................

A. Weaving room.

B. Slide rule.

C. Napier's bones

D. Abacus.

1. Software systems are developed using.........................

A. antivirus tools.

B. operating systems.

C. programming languages.

D. word processing.

**Turn Over**

1. Identify the correct rule for HTML tags from the following..............................

A. Do not use the < and > symbols.

B. Symbols and tag text should be spaced.

C. There should always be an opening and closing tag.

D. All tags must start with equal signs (=).

1. A row in a database table that contains information about a given person, event, product or asset is a.................................

A. field.

B. record.

C. key.

D. mask.

1. The important way to protect data and other computer network resources is referred to as.........................................................

A. decoding.

B. backing.

C. zipping

D. encryption.

1. The views that enable a user to rearrange the order of slides are:

1. Outline view 4. Slide show view

2. Slide sorter view 5. Normal view

3. Notes page view

A. 1, 2, 3.

B. 2, 3, 4.

C. 3, 4, 5.

D. 1, 2, 5.

1. A computer that is not connected to a network is called a............................................

A. Stand- alone.

B. Client.

C. Server.

D. Terminal.

1. Publishing a webpage means:

A. Creating files and placing them on a web server.

B. Creating an advert and placing it in a Newspaper.

C. Web content is printed directly from the source document.

D. The source documents are merged to web server contents.

**Turn Over**

**SECTION B (60 MARKS)**

*Answer* **all** *questions in this section*

*All answers must be written in the space provided.*

1. (a) Explain why Analytic Engine designed by Charles Babbage made him the father of modern computers? ***(02 marks)***

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) Give one good reason for the following innovations:

i. Vacuum tubes were replaced by transistors in the second generation of computer. ***(02 marks)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

ii. Computers in the second generation consumed great deal of heat than in third generation. ***(02 marks)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(c). suggest any one main innovation which describes feature of:

i. Fourth Generation Computers. ***(02 marks)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

ii. Fifth Generation Computers. ***(02 marks)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. (a) Explain any three main areas in sports where computer systems are used. ***(06 marks)***

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………………………………………………………………………

(b)State the use of VGA Port in a computer system. ***(02 marks)***

…………………………………………………………………………………………………………………………………………………………………………………………

(c). Identify the colors typically used for the following ports:

i. PS/2 Mouse: ……………………………………………………… ***(01 mark)***

ii. Microphone (input): ……………………………………………… ***(01 mark)***

1. List and describe any five factors in choosing the computer case: ***(10 marks)***

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………………………………………………………………………

……………………………………………………………………………………………

……………………………………………………………………………………………

……………………………………………………………………………………………

……………………………………………………………………………………………

1. Match the definition on the left with each of these terms:

***Active partition, Formatting, Partitioning, Registry, and Windows Explorer***

a) The process of assigning part or all of the drive for use by the computer is …………………………………………………………………… ***(02 marks)***

b) ………………………………………is a central information database for Windows 2000 and Windows XP organized into a structured hierarchical database to hold hardware, operating system, and application settings and configuration. ***(02 marks)***

c) …………………………………………….allows a user to manage files and directories from a single graphical interface. ***(02 marks)***

d) The partition used by the operating system to boot the computer is ……………………………………………………………… ***(02 marks)***

e) ………………………………………… Prepares a file system in a partition for files to be stored. ***(02 marks)***

1. Describe the best method to keep the laptop computer cool. ***(02 marks)***

(b)Describe the best method to clean the following components:

i. Laptop keyboard ***(02 marks)***

………………………………………………………………………………………

………………………………………………………………………………………

ii. LCD: ***(02 marks)***

………………………………………………………………………………………

………………………………………………………………………………………

iii. Touch pad: ***(02 marks)***

………………………………………………………………………………………

………………………………………………………………………………………

iv. CD: ***(02 marks)***

………………………………………………………………………………………

………………………………………………………………………………………

1. Explain the term authentication as applied to computer systems. ***(02 marks)***

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) Outline any four common methods of computer authentication today. ***(08 marks)***

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

……………………………………………………………………………………………

**SECTION C (20 MARKS)**

*Answer only* ***one*** *question from this section. Answers to this question* ***must*** *be written in the answer sheets provided.*

1. (a) Define computer virus *(02 marks)*

(b) State **five** ways in which computer viruses spread. *(05 marks)*

(c) Describe **five** conditions that can lead to a computer system re-boot. *(05 marks)*

(d) Identify four technical problems which can hinder computer use and suggest a solution to each. *(08 marks)*

1. (a) Explain four computer professions in Uganda. *(08 marks)*

(b) Describe the steps taken when developing a new computer software program. *(12 marks)*

1. (a) What is meant by an email? *(02 marks)*

(b) Describe five advantages and Five Disadvantages of using email over ordinary letters. *(10 marks)*

(c) Why is it not good to have a lot of graphics on a web page *(03 marks)*

(d) Identify **four** precautions a web designer should consider when designing a web page *(05 marks)*

**END**