Candidate’s Name:………………………………………………………………………….

Signature:…………………………………………….

*(Do not write your School/Centre Name or Number anywhere on this booklet.)*

**840/1**

**COMPUTER STUDIES**

**Paper 1**

**Oct./Nov. 2015**

**2½ hours**

**EQUATORIAL COLLEGE SCHOOL**

**Uganda Certificate of Education**

**COMPUTER STUDIES**

**Paper 1**

**2 hours 30 minutes**

**INSTRUCTIONS TO CANDIDATES:**

*Write your name, signature, random and personal numbers 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 structures questions. Answers to section* ***B*** *must be written in the answer booklets provided.*

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

**For Examiners’ Use Only**

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

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**SECTION A: (20 MARKS)**

1. The ability of the computer to perform many different tasks is termed as…………….
2. reliability C. versatility
3. efficiency D. accuracy
4. Digital cameras save the expenses of all the following except……………….
5. duplication C. film developing
6. posting D. battery powder
7. In computer storage capacity, a megabyte is approximately equivalent to ………. bytes.
8. 1,073,741,824 C. 1,024
9. 1,048,574 D. 1,099,511,627,776

1. When using a word processor, a footer can best be defined as……………
2. a text that prints in the bottom margin of a page.
3. a text that prints in the gutter of a page.
4. a text that prints in the top margin of a page
5. the last word of a document

1. Spreadsheets would be the best computer application to carry out………….
2. the production of letters C. notes about appointments and meetings
3. Budgeting and financial projections. D. drawing of graphics and structural designs
4. The process of writing a program is commonly called……………..
5. running C. coding
6. compiling D. debugging
7. Which one of the sets below contains network security technology?
8. Firewall and encryption C. Spamming and adware
9. Pharming and phishing D. Cookies and spyware
10. Computer management utilities, such as disk defragmentation, are found in……………
11. Entertainment C. System tools
12. Accessibility D. Communications
13. Which one of the following makes up the last phase of system development?
14. Feasibility study C. Coding
15. Maintenance D. Testing

1. The startup computer instructions on boot up are found in
2. ROM BIOS C. REGISTER
3. CPU. D. CONFIG . SYS.
4. The standard markup language used in creating most webpages is
5. HTTP C. URL
6. TCP D. HTML
7. In database, a field is…………………..
8. a unit of information in a record. C. a particular listing with a file
9. the way information is displayed. D. the entire collection of data
10. Which one of the below is not performed by the computer’s operating system?

A Loading of computer programs

B. Interfacing between the user and the program

C. Removing computer virus

D. Scheduling tasks for excretion

1. The development of wireless computer networks was a technological milestone in the ……………………….. generation.
2. Internet explorer C. Mosaic
3. Netscape navigator D. Google

1. The following are web browsers except……………………………….
2. Internet explorer C. Mosaic
3. Netscape navigator Google
4. The process of transferring files from a client computer to a server on the Internet, is referred to as………………………….
5. Saving C. downloading
6. Uploading D. storing
7. Which one of the following is not a utility program?
8. Backup C. Defragmenter
9. Registers D. Disk cleaning
10. The software most suitable for producing visual aids to enhance communication if ideas is………………………………… software
11. database C. Presentation
12. Spreadsheet D. Word processing
13. A combination of characters associated with a user name that allows to access computer resources is referred to as
14. User ID. C. Password
15. Login D. Word star
16. Which of the following structures is not correct for a URL?
17. ftp:/www. Google.com. C. http:/www.google.com.
18. <https://www.google.com>. D. html://www. google com.

**SECTION B (60 MARKS)**

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

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

21(a) Give any two ways of categorizing computers. (02 marks)

1. …………………………………………………………………………………………….
2. …………………………………………………………………………………………….

(b) Name **three** stages of the data processing cycle. (03 marks)

1. …………………………………………………………………………………………….
2. …………………………………………………………………………………………….
3. …………………………………………………………………………………………….

(c)(i) Distinguish between computer legal issues and ethical issues. (02 marks)

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

(ii) Give any **three** computer ethical issues. (03 marks)

1. ………………………………………………………………………………………………
2. ………………………………………………………………………………………………
3. ………………………………………………………………………………………………

22(a) (i) Name any **two** ports through which computer peripherals are connected. (02 marks)

………………………………………………………………………………………………..

………………………………………………………………………………………………..

(ii) Give any two components inside a computer which can be replaced or upgraded, when

the computer is slow. (02 marks)

(b) Outline **two** uses of a computer system control panel. (02 marks)

(i) ………………………………………………………………………………………………

(ii) ………………………………………………………………………………………………

(c)(i) Explain a computer system interface. (02 marks)

………………………………………………………………………………………………….

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

………………………………………………………………………………………………….

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

(ii) Identify any two features of an application software interface. (02 marks)

………………………………………………………………………………………………….

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

…………………………………………………………………………………………………

23(a) Explain the following functions as used in spreadsheet applications. (02 marks)

1. **IF**

………………………………………………………………………………………………….

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

…………………………………………………………………………………………………….

1. **MAX**

………………………………………………………………………………………………….

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

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

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

(b) When is an absolute cell reference necessary in a spreadsheet formula? (02 marks)

………………………………………………………………………………………………….

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

………………………………………………………………………………………………….

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

(c) Give the function of each of the following field properties in a database table design.

(i)  **Default value.**  (02 marks)

………………………………………………………………………………………………….

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

(ii) **Validation rule .** (02 marks)

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

…………………………………………………………………………………………………… …………………………………………………………………………………………………….

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

24(a)(i) What is a peer to peer computer network? (02 marks)

…………………………………………………………………………………………………….

…………………………………………………………………………………………………… . …………………………………………………………………………………………………….

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

(ii) Name any **three** examples of communication media used in a computer network. (03 marks)

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

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

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

(b)(i) Define **a webpage**. (02 marks)

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

(ii) State **three** benefits of a school having a website. (03 marks)

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

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

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

25(a) State **five** factors considered in order to come up with an attractive and professional

presentation. (05 marks)

1. ………………………………………………………………………………………………
2. ………………………………………………………………………………………………
3. ………………………………………………………………………………………………
4. ………………………………………………………………………………………………
5. ………………………………………………………………………………………………

(b) Give any two ways that can be used to navigate an electronic word document. (02 marks)

(i) …………………………………………………………………………………………………..

(ii) ……………………………………………………………………………………………………

(c) Outline the effects of the following word processing features:

(i) **Identation** (01 mark)

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

(ii) **Superscript**  (01 mark)

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

(iii) **Line spacing**  (01 mark)

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

26(a) Define the term off-shell software. (02 marks)

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

(b) In the table below, categorise the given programmes as either system software or application software:

* Auto CAD
* Windows 2000
* Disk defragmenter
* Publisher

|  |  |
| --- | --- |
| **SYSTEM SOFTWARE** | **APPLICATION SOFTWARE** |
| (i) | (iii) |
| (ii) | (iv) |

(c) Explain the following computer programming tools

(i) **Complier**  (02 marks)

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

(ii) Interpreter (02 marks)

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

**SECTION C: (20 MARKS)**

*Answer only* ***one*** *question from this section. Answer to the question must be done in the answer booklet provided.*

27. (a) You are provided with the following computer hardware parts and other electrical

accessories:

1. AC main sockets outlets.
2. Uninterruptible Power Supply (UPS).
3. UPS Power cable.
4. System Unit Power cable.
5. Monitor.
6. Monitor Power Cable.
7. Mouse
8. Key board
9. VGA cable

Describe how they can be assembled to make a complete functioning computer. (12 marks)

(b) Outline the logical order of switching on the computer system, assembled in (a).

(08 marks)

28(a) Describe any **four** services that are provided by the Internet. (08 marks)

(b) Explain the functions of any **four** devices that can be used to connect the Internet.

(12 marks)

29. Using a computer programming language of your choice, write a computer program that

will be used to find a product of two numbers. (20 marks)

***END.***