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| **NAME:** |  | **INDEX NO:** |  |
| **SCHOOL:** |  | **SIGNATURE:** |  |

840/1

COMPUTER

STUDIES

Paper 1

2½ hours

Aug 2016

UNNASE MOCK EXAMINATIONS

**Uganda Certificate of Education**

**COMPUTER STUDIES**

**PAPER 1**

**TIME: 2 hours 30 minutes**

**INSTRUCTIONS TO CANDIDATES**

* *Write your* ***NAME****,* ***SCHOOL,******SIGNATURE*** *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* ***first page****. The objectives should be neat, visible and not crossed out.*
* *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 equally weighted essay questions. Answer only one. Answers to Section* **C** *must be written on the answer sheets provided.*

**Answers to Section A.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 |  | 5 |  | 9 |  | 13 |  | 17 |  |
| 2 |  | 6 |  | 10 |  | 14 |  | 18 |  |
| 3 |  | 7 |  | 11 |  | 15 |  | 19 |  |
| 4 |  | 8 |  | 12 |  | 16 |  | 20 |  |

**For Examination Use Only**

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

**SECTION A (20 MARKS)**

*Answers to this section should be written in the table provided on the first page.*

1. Which of the following computing devices is said to be first computing device?

A. Logarithm tables B. Slide rule C. Abacus D. Mechanical calculator

1. The silicon chips used for data processing are called………………………….

A. RAM chips B.ROM chips C. Microprocessors D. PROM chips

1. Miriam has accidentally deleted all the text he has been working on for 3 hours! What should he do to restore the work?

A. Rush out and call the computer teacher for assistance.

B. Check the recycle bin and click ‘restore’.

C. Close the document and click ‘No’ when asked to save changes.

D. Press Ctrl-Z immediately.

1. The following output device is used to produce bar charts, maps, architectural drawings and

three dimensional illustrations.

A. chain printer B. plotter C. Inkjet printer D. portable scanner

1. In word processor, a ruler’s major function is to …………………………….
2. Measure distance of a workspace
3. Show distance of indents position
4. Distance of text
5. Length of footer
6. ………………………is system software that is helpful in identifying program errors.

A. compiler. B. Source Code. C. Error code. D. A debugger.

1. Which of the following program shields the user from the hardware detail as well making

computer easy to use?

A. A word processor B. Operating system

C. Application software D. Database Management System

1. Computer programs used in tasks such as a removal of virus or data compression can be

categorized as

A. Desktop publishing B. communication program

C. Utility program D. Spread sheet program

1. Identify one of the following that is an odd operation of database.   
   A Creating slides B. Creating a database file structure   
   C. Defining fields D. Calculating statistics for groups of records
2. ……………………………is used to prevent use of stolen data.

A. A release key B. Validation C. Encryption D. Biometric Devices

1. Which of the following is not representation of a type a network topology

A. ROM B. Ring C. Bus D. Star

1. Which one of the following is an input device?

A. Scanner B. Printer. C. Loudspeaker. D. Plotter.

1. Back up of the data files will help to prevent

A. loss of confidentiality B. duplication of data C. virus infection D. loss of data

1. ………………………… is a CPU component that coordinates various parts of the PC.

A. Arithmetic logic unit. B. Control Unit. C. Storage unit. D. Digital unit.

1. Which of the following is not a characteristic of spreadsheets?

A. Worksheets cannot be renamed.

B. Can enter text, number of formula.

C. Calculations can be done other cells.

D. Variety of operations can be carried out on rows or columns.

1. To login your e-mail account you should enter a

A. Username and access control

B. Password and username

C. Access control and password

D. Phone number and password

1. The ………………. Stores data temporary in a central processing unit.

A. ALU B. Control Unit C. Register D. Accumulator

1. Which is the correct order of precedence of arithmetic operators below in programming?

A. \*, + , () B. ( ), +,-, \* C. +,\*,( ),- D. ( ), \* ,+ ,-

1. Which of the following stages of information system development involves monitoring the new system from time to time?

A. Testing B. Investigation C. Maintenance D. Implementation

1. What is embedded system?

A. The programme which arrives by being wrapped in box.

B. The programme which is the permanent part of the computer

C. The computer which is the part of a big computer

D. The computer and software system that control the machine

**SECTION B (60 MARKS)**

*Answers to Section* B *must be written in the spaces provided in the question paper.*

1. Define the term ‘Artificial Intelligence’ as applied to computers. (01 mark)

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

(b) State any four precautions that should be taken to ensure safety in a computing environment? (04 Marks)

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

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

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

(c)Write the following abbreviations in full? (2 Marks)

(i) ASCII:………………………..………………………………………………………………………………….

(ii) EBCDIC:………………………………………………………………………………………………………..

(d) List any 3 three examples of microcomputers computers. (3 Marks)

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

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

1. Below are specifications for two different types of computers A and B.

Specification:

**Computer A Computer B**

RAM : 1000 MB 2GB

HARD DISK : 7000 MB 20 GB

SPEED : 960 MHz 1 GHz

COMPUTER WORD : 32-bit 64 – bit

NETWORK CARD : NO YES

VIDEO CARD : YES YES

Study them and answer the questions that follow:

1. Which computer is faster in processing data? (01 marks)

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

1. How many bytes can computer A handle at the same time? (02 marks)
2. Which computer is more likely to be connected to a LAN and why? (02 marks)

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

1. Define the following terms: (03 Marks)

Intranet: …………………………………………………………………………………………………………………….

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

Topology:…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

Protocol:………………………………………………………………………………………………………………….……………………………………………………………………………………………………………………………….…

1. Differentiate down loading from uploading as used in computers. (02 Marks)

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

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

1. Define application software. (02 Mark)

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

(b) Identify any two items that should come along with authentic software. (02 Marks)

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

(c) Explain two factors you would consider before installing software on a computer. (02 Marks)

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

(d) List two ways of identifying illegal operating system. (02 Marks)

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

(e) State any two uses of device drivers (02 Marks)

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

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

1. State one function in each case of the following word processors features: (04 Marks)

Split cells:………………………………………………………………………………………………………………......

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

Mail Merge:…………………………………………………………………………………………………………………

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

Merge cells:…………………………………………………………………………………………………………………

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

Thesaurus…………………………………………………………………………………………………………….…….

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

(b) Mention four application areas of spreadsheets. (04 marks)

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

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(c) Give two examples of spreadsheet software. (02 Marks)

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

1. Give any one example of a web browser and a search engine (1 mark)

Web browser:……………………………..………………Search engine:………………………………………......

(b) Give one function in each case of the following E-mail software features. (03 Marks)

(i) Compose:

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

(ii) Cc:

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

(iii) Forward

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

(c) Mention three netiquettes you should follow while using the email platform. (03 Marks)

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

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

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

(d) Define the following (03 Marks)

Add on (in relation to web browser)

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

Cookie (in relation to web browser)

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

Attachment (in relation to internet)

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

IP address (in relation to internet)

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

1. Define a file manager as used in computing. (01 Mark)

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

(b) List any two functions of a file manager. (02 Marks)

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

(c) Define the following terms as used in programming (04 Marks)

1. Compiler

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

1. Variable

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

(d) Identify any one keyword in C-programming language (01 Mark)

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

(e) Give any two examples of high level programming languages (02 Marks)

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

**SECTION C (20 MARKS)**

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

1. (a) Define the following terms as used in computers (06 marks)
2. System specification
3. System configuration
4. System troubleshooting

(b) Mention any four functions of the system control panel. (04 Marks)

(c) Mention any 5 components of computer system unit and how they aid the operation of a computer.

(10 Marks)

1. What is meant by the terms as used in programming? (8 marks)
2. An algorithm,
3. Flowchart,
4. syntax,
5. Pseudocode

(b) Kirya was assigned a task by the computer teacher to develop a program that computes the radius of a circle whose area is to be entered by the user using either C or VB language.

Assist Kato to write a working program according to the task assigned to him by the teacher (12 marks)

1. What is computer crime? (02 Marks)

(b) Explain any four examples of computer crimes. (08 marks)

(c) Mention the role of the following computer professions. (10 Marks)

1. Network Administrator
2. web master
3. System analyst
4. Computer Technician
5. Computer Programmer