**NAME ……………………………………………………………….Index no……………..…Signature………….**

**840/1**

**COMPUTER STUDIES**

(Theory Paper)

**Jul/Aug 2016**

**2½ Hours**



**MUKONO EXAMINATIONS COUNCIL**

**Uganda Certificate of Education**

**COMPUTER STUDIES**

Paper 1

**Time: 2 Hours 30 Minutes**

**INSTRUCTIONS TO CANDIDATES**

* *This paper consists of* ***three*** *sections;* ***A****,* ***B*** *and* ***C***
* *Section* ***A*** *and* ***B*** *are compulsory*
* *All correct answers for section* ***A*** *must be written in the boxes provided.*
* *Section* ***B*** *has* ***six*** *structured questions*
* *Section* ***C*** *contains* ***three*** *questions; attempt any* ***one*** *question from this section.*

**For Examiner’s use only**

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| mcq | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | Total |
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**Section A**

1. A microcomputer is often called a pc. The abbreviation “pc” stands for:

* 1. personal computer B. portable computer

1. politically correct D. personal calculator

2. Which of the following is an essential piece of hardware for a computer to work?

* 1. processor B. scanner

C. hammer D. word processor

3. The c in cpu stands for:

1. central B. computer

C. complex D. computing

4. The speed of a computer is measured in:

* 1. cpus B. mhz

C. mb D. ram

5. Which of the following statements is/are not true?

A.Information stored in ram is erased when the computer is turned off.

B.Information stored in rom is erased when the computer is turned off.

C.The m in rom stands for memory.

D.Hard disks, floppy disks and cd-roms are all used to store computer programs.

6. To open an application such as excel you choose….

* 1. Start / all programs / microsoft office tools/excel
  2. Start / all programmes /microsoft office/ excel
  3. Start / all programs /microsoft office/excel.
  4. Start / desktop/ microsoft word/ excel

7. To shrink a window you press…

1. The minimize button B. The maximize button

C. The close button D. The restore button

8. A (n)……. Control the allocation and usage of hard ware resources.

* + 1. Debugger B. Compiler

C. Operating system D. Application software

9. Assembly language programs are converted into language instructions by a (n)…..

A. Assembler B. Compiler

C. Interpreter D. Debugger.

10. Viruses are activated in all of the following ways except by:

1. Deleting e-mail without opening or executing any attachment
2. Opening an infected file
3. Booting a computer with an infected floppy disk in the disk
4. Running an infected program.

11. A (n) ………., which is used almost a exclusively by banking industry, can read text

printed with magnetic ink.

1. Bar code scanner
2. Optional character recognition reader (ocr)
3. Optional mark recognition reader (omr)
4. Magnetic-ink character recognition character recognition

Reader (micr)

12. Age is not a suitable field for a data base file student because…………..

* + 1. Age is a numeric field
    2. Different student may be of different ages
    3. Student with the same name may be of different ages
    4. Age has to be up dated every year

13 ………Is a type of output that consists of music, speech, or any other sound.

* + 1. A graphic or graphical image. B. Audio.

C. Text. D. Video.

14. Who invented the analytical engine in computer generations

* + - 1. Babbage charles
      2. Jacquarel joseph
      3. Thomas de columnar
      4. Cottried William

1. Which of these generation in the evolution of computers is characterized by the use of integrated circuits
2. First generation
3. Second generation
4. Third generation
5. Fourth generation

16. Artificial intelligence is?

1. The ability of computers to think and reason like humans
2. The ability of computers to do work
3. Manmade brains
4. The equivalent of man

17. Which of these is the easiest to carry from one place to another?

A super computer B. mainframe computer

C palm top computer D. lap top

18. How many generations have computers undergone?

A one B. three C. four D. five

19. The largest key on the keyboard is the

A. Return key B. Space key

C. Caps lock D. Backspace key

20. Ram is also known as

A. Random access memory B. Main memory

C. Working memory D. All of the above.

**Section B (60 marks)**

21. (a) What is a computer? ***(1 mark)***

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(b)i What is meant by the term *computer system*? ***(2 marks)***

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ii) List any three elements of computing. ***(3 marks)***

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(c) i What is a computer program? ***(2 marks)***

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ii) Distinguish between information processing cycle and machine cycle. ***(2 marks)***

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22. a) Define the term hardware. ***(1 mark)***

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b) i List any 3 hardware components found inside a computer system unit. ***(3 marks)***

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ii) Write CMOS in full ***(1 mark)***

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iii) Distinguish between a CMOS chip and CMOS battery ***(2 marks)***

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c) i What is a bus?  ***(2marks)***

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ii) What is a port? ***(1 mark)***

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23. a) Distinguish between system software and application software ***(2 marks)***

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b) List any three categories of system software ***(3 marks)***

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c) Explain any three system tools ***(3 marks)***

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

ii) …………………………………………………………………………………………………………………

iii) …………………………………………………………………………………….…………………………

d) What is a bug ***(2 marks)***

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24. a) What is computer security? ***(1 mark)***

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b) i What is malware?  ***(2 marks)***

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ii) Explain any two types of viruses ***(2 marks)***

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iii) Give any three functions of antivirus software.  ***(3 marks)***

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c) What is meant by the term **firewall**? ***(1 mark)***

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d) What is a spam?

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25. a) What is a computer network? ***(1 mark)***

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b) Give any resources that can be shared on a computer network.

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c) i Define the term topology. ***(1 mark)***

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ii) With illustrations describe the following:

Linear topology ***(2 marks)***

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Star topology ***(2 marks)***

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Mesh topology ***(2 marks)***

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d) Distinguish between ***Simplex*** and ***Full-duplex*** modes of data transmission

***(2 marks)***

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26. a) Distinguish between Extranet and Internet ***(2 marks)***

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b) List any **four** common services provided by the Internet ***(4 marks)***

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c) Give any two Disadvantages of using the Internet ***(2 marks)***

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d) What is meant by following terms?

i) Pharming ***(1 mark)***

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ii) Phishing  ***(1 mark)***

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**SECTION C (20 MARKS)**

**27.** a) Define the term multimedia ***(2 marks)***

b) Explain any five features of a good PowerPoint presentation ***(10 marks)***

c) Give the meaning of the following terms in relationship to presentation software:

i) Slide master ***(2 marks)***

ii) Transition loop ***(2 marks)***

iii) Handouts ***(2 marks)***

iv) Slide sorter view ***(2 marks)***

28. a) What are your expectations about the role of Computers in the future? ***(10 marks)***

b) Explain any five careers in field of computer studies. ***(10 marks)***

29. A computer is a harmful tool, do you agree ***(20 marks)***

***End***