

NAMES:

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840/1

COMPUTER

EDUCATION

Paper 1

31 July 2014

2 ½

hours

ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of

Education COMPUTER

EDUCATION THEORY

PAPER

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Write your name in the spaces above.

This paper is made up of three Sections: A, B and C respectively.

Section A contains 40 compulsory objective-type questions. Write your best alternative: A, B, C or D, in the box provided

Section B contains four compulsory structured questions. Answers must be written in spaces provided

Section C is made up of three questions. Attempt only one.

FOR EXAMINER'S USE ONLY

FOR EXAMINER'S USE ONLY										
MCQ	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	TOTAL

SECTION A:20 MARKS

1. Why should dust be removed from inside the computer case?
 - A. The accumulation of dust can cause short circuits on the motherboard.
 - B. ~~The presence of dust such as the CPU with the cooling of system~~
 - C. The accumulation of dust can cause the Front side Bus (FSB) to run slower.
 - D. Accumulation of dust inside a computer poses no real threat to the system.

2. A computer purchased six months ago is operating more slowly and takes longer to open documents. The computer has never been connected to the Internet. Which of the following could be used to improve the computer's performance?
 - A. FDISK
 - B. SCANDISK
 - C. Dr. Watson
 - D. Disk defragmenter

3. What makes a computer a powerful tool?
 - A. Its reliability
 - B. Amount of data it keeps.
 - C. Communication ability
 - D. The speed at which it work

4. Which of these are examples of search engines?
 - A. Google , Yahoo, web cam
 - B. Webmaster, Yahoo, excite
 - C. Mozilla firefox, Google Chrome
 - D. Yahoo, Google and Excite

5. Which of the following is the domain name for the e-mail address entebemocks2014@gmail.com
 - A. Gmail
 - B. Utecmocks2014
 - C. .com
 - D. @

6. Which website creates 'communities' of people who can share information about lives, interests and hobbies with each other?
 - A. A blog
 - B. Awiki
 - C. A podcast
 - D. Social networking site

7. This error means a Function used is not being recognised by Excel

- A. NULL
- B. #DIV/0!
- C. #NAME?
- D. #VALUE?

8. The first calculator to contain memory was invented by

- A. Pascal
- B. Leibniz
- C. Babbage
- D. Bill Gates

9. This was the first development in the history of computers.

- A. Mechanical era
- B. Start of the computer age
- C. Simple Calculating devices
- D. Micro Computers

10. Which of the following type of printers does Dot use a print - head mechanism when printing characters?

- A. Impact
- B. Dot matrix
- C. Daisywheel
- D. Non- impact

11. Read only Memory (ROM)

- (i). Is volatile
- (ii). Is programmable
- (iii). Is mounted on the motherboard
- (iv). Contains the bootstrap loader

- A. (i) and (iii)
- B. (ii) and (iv)
- C. (iii) and (iv)
- D. (iii) and (iv)

12. Which of the following devices would be most suitable for Entebbe Mocks

Examiners while marking objective type questions?

- A. MICR
- B. Scanner
- C. Handwriting Recognition Device
- D. OMR

Turn Over

13. The internet service that enables exchange of text messages in real time is .
- A. E-mail
 - B. Telnet
 - C. Chat
 - D. FTP
14. Which of the following hard disk is of a large storage capacity
- A. 1024^5 Bytes
 - B. 1024^3 Bytes
 - C. 1024^4 Bytes
 - D. 1024^2 Bytes
15. Every Friday afternoon, your Laboratory technician does a full backup of his computer system. If your hard disk fails on the following Tuesday afternoon, what data would be lost?
- A. No data will be lost.
 - B. All data from the previous week.
 - C. All the data entered from Friday afternoon to Tuesday afternoon.
 - D. Some of the data between Friday afternoon and Tuesday afternoon
16. A software with copyrighted material is marked with
- A. ©.
 - B. ®.
 - C. €
 - .D. @.
17. Which of the following devices must be used in order to connect two computers for sharing of data?
- A. USB
 - B. NIC
 - C. UPS
 - D. Printer

18. Which of the communication medium listed below is best for connecting computers and transmitting data across a desert, lakes or rivers?
- A. Optic Fiber Cables
 - R. Coaxial Cables
 - C. Infrared devices
 - D. Microwave Link Stations
19. Special files that make a computer start when switched on are called
- A. Utility files
 - B. Command files
 - C. Hidden files
 - D. Boot files
20. Determine the number of hard disks of 80GB capacity that would be needed to store data of 40 TB.
- A. 510
 - B. 512
 - C. 125
 - D. 300

SECTION B (60 Marks)

- 21 (a) For each of the computer generations stated below, mention **one** major technological innovation of that generation.
- (i) Third Generation
 - (ii) Fourth Generation
 - (iii) Fifth Generation
- (b) Give **anyone** example of data processing devices used during the '**Mechanical era**'
- (c) Mention **one** function of each one of the following components of the system unit.
- (i) System case (02 marks)
 - (ii) Power Supply Unit. (02 Marks)

Turn Over

(d) Differentiate between a system unit and a Central processing Unit.

(02 marks)

22.. (a) Distinguish between a text processor and a document processor.
(02 marks)

(b) While reading a document, Antony wants to replace the word "infrastructure" with another word of similar meaning. What tool in word processing could he use?
(02 mark)

(c) Explain the meaning of the following terms as applied in Word processing.

(i) Word wrap *(02 marks)*

(ii) Mail merge *(02 marks)*

(iii) Page Break *(02 marks)*

23. (a) Write the following in full.

(i) HTTP

(01 mark)

(ii) TCP

(01 mark)

(iii) WIFI

(01 mark)

(b) Define the following terms as used in data communication.

(i) Data bus

(02 marks)

(ii) Routers

(02 marks)

(c) State any two limitations of computer communications.

24 (a) Differentiate between physical and wireless transmission media.

(04 marks)

Turn Over

(b) Give **three** examples of wireless transmission media. *(03 marks)*

(c) List any **three** examples of network devices. (03 marks)

25. (a) Explain the following terms as applied in computing.

(i) **CMOS battery** (02 marks)

(ii) **Motherboard** (02 marks)

(iii) **Adapter cards** (02 marks)

(b) Explain any **two** reasons why a computer may fail to boot. (02 marks)

(c) How is restarting a computer different from switching a user windows XP operating (02 marks)

Look at these two pieces of code.

A. CL LDX#0

Loop: LDA A,
2

ADCD,X STA C,X INX

CPX#6

BNE Loop

B.

FOR LOOP = 1 TO 4

INPUT NUMBER 1, NUMBER 2

SUM = NUMBER 1 - NUMBER

PRINT

SUM

NEXT

(a) Which of these pieces of code is written in a high level language? (01 mark)

(b) Give one benefit of writing code in a high level language (01 mark)

(c) Give one benefit of writing code in low - level languages. (01 mark)

.....
.....

(d) *High level languages can be compiled and interpreted. Give two differences between a compiler and an interpreter.* (04 marks)

Turn Over

(e) Write down **three** commonly used examples of high level programming languages used today. (03 marks)

SECTIONC: (20 Marks)

Attempt only one question.

Distinguish between **Volatile and non volatile** devices giving examples of each. (04 marks)

(
b
)

Give the advantages and disadvantages of using Optical storage devices. (16 marks)

28. (a) Describe **five** most common uses of the Internet and the Web. (10 marks)

(b) Explain the different discussion groups used in communication. (10 marks)

29.(a) Your school wants to maintain a Sports Database in MS - Excel. What advantage will your school have over manual records? (10 marks)

(b) Give the differences between **spreadsheet applications** and **Word processor**

