

NAMEIndex no.....

Signature.....

840/1

COMPUTER STUDIES

(Theory Paper)

Jul/Aug 2017

2½ Hours

RESOURCEFUL MOCK 2017

Uganda Certificate of Education

COMPUTER STUDIES

Paper 1

Time: 2 Hours 30 Minutes

INSTRUCTIONS TO CANDIDATES

- Write your **NAME**, **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.
- 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 in the answer sheets provided.

For Examination Use Only

MCQ	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	TOTAL

SECTION A (20 Marks)

Attempt **all** questions in this section.

1. From what location are the 1st computer instructions available on boot up?

A. ROM BIOS

C. RAM

B. CPU

D. CMOS RAM

☐

2. A set of rules that govern electronic data communications called

A. IP Address

C. Protocol

B. MAC address

D. Network Address

☐

3. is a full form of SQL.

A. Standard query language

B. Sequential query language

C. Structured query language

D. Server side query language

☐

4. A hard disk is divided into tracks which are further subdivided into:

A. Platters

C. Clusters

B. Sectors

D. Tracks

☐

5. ESD would cause the most damage to which component?

A. Monitor

C. Power supply

B. Expansion board

D. Keyboard

☐

6. Which Component of pc maintains date and time

A. CMOS RAM

C. ROM BIOS

B. RAM

D. CPU

☐

7. DBMS helps achieve

A. Data independence

C. Neither A nor B

B. Centralized control of data

D. Both A and B

☐

8. What's the best way to protect your hard drive data?

A. Regular backups

C. Run a regular diagnostic

B. Periodically defrag it

D. Run scandisk at least once a week

☐

9. When a word is used in multiple locations or a word is used that was inappropriate, a thesaurus can be used to look up a(n)..... or a word similar in meaning.
- | | | |
|------------|------------|--------------------------|
| A. Metonym | C. Antonym | ☐ |
| B. Synonym | D. Homonym | |
10. Highlighting a block of text.
- | | | |
|-----------------|--------------|--------------------------|
| A. Text Box | C. Selecting | ☐ |
| B. Highlighting | D. Drawing | |
11. How are data organized in a spreadsheet?
- | | | |
|----------------------|---------------------|--------------------------|
| A. Lines and spaces | C. Rows and columns | ☐ |
| B. Layers and planes | D. Height and width | |
12. What tag is used to display a picture in a HTML page?
- | | | |
|------------|--------|--------------------------|
| A. picture | C. img | ☐ |
| B. image | D. src | |
13. Good design in presentation software determines
- | | | |
|---------------------|---------------------|--------------------------|
| A. credibility | C. readability | ☐ |
| B. first impression | D. All of the above | |
14. What is a firewall in computer networks?
- | | |
|--|--------------------------|
| A. A web browser | ☐ |
| B. Software that prevents blocked traffic in to a network especially to keep off hackers | |
| C. A search engine | |
| D. System software | |
15. Each excel file is called a workbook because
- | | |
|---|--------------------------|
| A. It can contain text and data | ☐ |
| B. It can be modified | |
| C. It can contain many sheets including worksheets and chart sheets | |
| D. You have to work hard to create it | |

16. Process of copying file from remote server to local drive is called as _____.

- A. Refreshing
- B. Downloading
- C. Browsing
- D. Uploading

☐

17. A program is a sequence of _____ written in a programming language.

- A. Instructions
- B. Coded words
- C. Functions
- D. Lines

☐

18. The time for the disk arm to move the heads to the cylinder containing the desired sector is called

- A. disk time
- B. seek time
- C. arm time
- D. sector time

☐

19. What is the use of Bridge in Network?

- A. To connect LANs
- B. To control network speeds
- C. To disconnect LANs
- D. To connect WANs

☐

20. Which of the following attaches itself to a program in your computer?

- A. Computer bug
- B. Computer virus
- C. Computer object
- D. Comport code

☐

SECTION B: COMPULSORY (60 MARKS)

Answer **all** questions in this section. All the working **must** be done in the spaces provided.

21. a) Write the following in full in relation to computers.

i) LSI. (01 Mark)

ii) TCP/IP. (01 Mark)

b) Distinguish between system software and application software and state an example of each.

Difference: (1 Marks)

.....
.....

Examples: (02 Marks)

System software.....

Application software.....

c) i) What is an **operating system**? (01 Marks)

.....
.....

ii) Mention any **two** functions of operating systems (02 Marks)

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.....
.....

d) Of what importance are the following to a computer system

i) **Disk repair** (01 Mark)

.....
.....

ii) **Uninstall** (01 Mark)

.....
.....

22. a) State any **three** physical threats to computers. (03 Marks)

.....
.....
.....

b) Suggest any **two** solutions that can be used to mitigate the above mentioned threats in a computer lab. (02 Marks)

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.....

c) Explain the meaning of the following.

i) **Algorithm.** (01 Mark)

.....

.....

ii) **Translator** (01 Mark)

.....

.....

d)i) Distinguish between **command line interface** and **graphical user interface.** (01 Mark)

.....

.....

ii) Mention the main input devices used on each of the following interfaces. (02 Mark)

Graphical user interface

.....

Command line interface.

.....

23. What is **adata type**? (01 Mark)

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.....

b) State any **three** data types used when creating a database. (03 Marks)

.....

.....

.....

c) State the use of each of the following Database objects

i) **Form** (01 Mark)

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.....

ii) **Query** (01 Mark)

.....

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iii) **Table** (01 Mark)

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.....

iv) **Report** (01 Mark)

.....

.....

d) List **two** examples of database management software

(02 Marks)

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.....

24. Mention three **safety precautions** to be observed before installing an new device into a computer system

(03 Marks)

.....

.....

.....

b) Define the following terms

i) **Ports**

(01 Mark)

.....

.....

ii) **Peripheral device**

(01 Mark)

.....

.....

iii) **Solid state storage**

(02 Marks)

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.....

c) Dot services Uganda intends to buy an **output** equipment used to produce road maps.

Which **device** would one advise to buy and why?

(01 Mark)

.....

.....

d) State **two** precautions you would take to avoid damaging a hard disk.

(02 Marks)

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25. i) Define the term **Bandwidth**.

(01 Mark)

.....

.....

ii) Suggest any **two** examples of communication media

(02 Marks)

.....

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iii) Mention **two** factors you would consider when selecting a communications media.

(02 Marks)

.....

.....

b) What is a **search engine**? Mention **one** example.

(02 Marks)

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c) Explain the use of the following components of and e-mail

i) **Compose**

(01 Mark)

.....

.....

ii) **BBC**

(01 Mark)

.....

.....

iii) **Trash**

(01 Mark)

.....

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26. a) What is a computer laboratory?

(01 Mark)

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.....

b) State the use of the following in the computer laboratory

i. **Fire extinguisher**

(01 Mark)

.....

ii. **Burglar proof**

(01 Mark)

.....

iii. **Intrusion Alarm detection system**

(01 Mark)

.....

iv. **First Aid kit**

(01 Mark)

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c) Mention any **three** threats to computer hardware in the laboratory

(03 Marks)

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d) Sate any **three** solutions to the problems above

(03 Marks)

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SECTION C (20 Marks)

Attempt **ONLY** one question of your choice.

Answers to this section are to be written on answer sheet provided.

27. (a) Different computer devices are connected through different computer ports. Mention at least **five** different types of ports with one peripheral connected through the mentioned port.

(10 marks)

- (b) Joan has finished typing her report; she tries to print such that she can hand it over to her superior but the printer cannot print.

How would you troubleshoot this printer?

(10 Marks)

28. Explain any **ten** modern trends in computing that are a security threat.

(20 marks)

29. (a) (i) Define the term **syntax**.

(02 marks)

- (ii) A Flow Chart is the pictorial representation of an *algorithm*. Draw the following shapes used in the flow chart: **Start/Stop**, **process**, **Decisions** and **input/or output**.

(08 marks)

- (b) Write a computer program to calculate the **area** of a rectangle.

(10 marks)

Qn.

ANSWER SHEET

[illegible]

[illegible]