

Candidate's name.....

Signature .....

Random No.						Personal No.		

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

840/1

**COMPUTER STUDIES**

**Paper 1**

**Oct./Nov. 2018**

2½ hours



**UGANDA NATIONAL EXAMINATIONS BOARD**

**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 structured questions. Answers to section **B** must be written in the spaces provided in the question paper.*

*Section **C** contains **three** equally weighted practical-theory questions. Answer only **one** question. Answers to Section **C** must be written in the answer booklet(s) provided.*

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

**For Examiners' Use only**

MCQ	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	TOTAL

## SECTION A (20 MARKS)

*Answer all questions in this section.*

1. The idea of networking of computers was introduced in the ..... generation of computers.  
A. first  
B. second  
C. third  
D. fourth  
☐
2. Section breaks in Word processing are used to divide the document into ....  
A. subtopics.  
B. columns within a table.  
C. paragraphs.  
D. parts between pages.  
☐
3. The purpose of air conditioning in a computer laboratory is .....  
A. upgrading computer software.  
B. regulating power consumption.  
C. regulating temperature.  
D. upgrading computer hardware.  
☐
4. A web browser is a .....  
A. program that enables you to view and explore information on the web.  
B. page that appears each time you start your web.  
C. collection of programs maintained by the web master.  
D. page which has links to other web pages.  
☐
5. The following are advantages of a LAN **except** .....  
A. it is relatively inexpensive and easy to install.  
B. all computers on the LAN can be connected to the Internet at the same time.  
C. each computer can access resources from other computers on the LAN.  
D. all computers on the LAN can share peripherals over the Internet.  
☐
6. A diagnostic process that a computer runs to determine if the hardware is working properly when a computer is switched on is .....  
A. power-on self test.  
B. down loading.  
C. debugging.  
D. trouble shooting.  
☐

7. The computer specification that would determine the quality of a picture in a computer system is the .....
- A. screen size.
  - B. screen resolution.
  - C. hard disk capacity.
  - D. RAM capacity.
8. Which of the following is **not** a unit of data storage?
- A. Field.
  - B. Bit.
  - C. Byte.
  - D. Character.
9. One of the functions of a database management software is to .....
- A. enhance presentation.
  - B. download attachments.
  - C. update records.
  - D. mail merge.
10. The following are classifications of computers by "purpose":
- A. Mainframe and microcomputers.
  - B. Special and general computers.
  - C. Digital and analog.
  - D. Minicomputers and microcomputers.
11. The importance of a master slide in presentation software is to .....
- A. insert items that appear on every slide.
  - B. display multiple slides on a screen.
  - C. relate data in slides.
  - D. filter data in slides.
12. The following are types of system software **except**.....
- A. operating systems.
  - B. expert systems.
  - C. utility routines.
  - D. programming languages.
13. An artificial environment that is created with a software and presented to the user is .....
- A. interactive mode.
  - B. virtual Reality.
  - C. advanced Robotics.
  - D. real mode.

14. One physical measure of preventing computer systems from computer crimes is .....
- A. setting passwords.
  - B. activating firewalls.
  - C. data encryption.
  - D. burglar proofing.
15. The format for describing the location of resources over the Internet is .....
- A. ISP.
  - B. DNS.
  - C. WEB.
  - D. URL.
16. The HTML tags used in bolding the word "example" are .....
- A. `< b > example < b >`
  - B. `< / > b example < b >`
  - C. `< b > example < /b >`
  - D. `example < b > < /b >`
17. The part of the Central Processing Unit that performs logic operations and calculations is the .....
- A. ALU.
  - B. Control unit.
  - C. ROM.
  - D. Logic unit.
18. The command that displays files and directories on the command line is ...
- A. `C: \> cd`
  - B. `C: \> dir`
  - C. `C: \> cls`
  - D. `C: \> md`
19. Which one of the following is an example of a translator in programming?
- A. Compressor.
  - B. Debugger.
  - C. Defragmenter.
  - D. Compiler.
20. In spreadsheet software, the file you create and save is called a .....
- A. Document.
  - B. Worksheet.
  - C. Workbook.
  - D. Spreadsheet.



## SECTION B (60 MARKS)

*Answer all questions in this section.*

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

21. (a) What is a computer? (02 marks)

.....

.....

.....

- (b) Name the keyboard buttons used to perform the functions shown below. (03 marks)

(i) When the key is pressed, it takes the cursor to the next line.

.....

(ii) Pressing the key changes the input mode to uppercase.

.....

(iii) When pressed it deletes a character to the left of the cursor.

.....

- (c) Write down **two** contributions of computers in the area of teaching and learning. (02 marks)

(i) .....

(ii) .....

- (d) Give **one** task done by each of the following computer professionals. (03 marks)

(i) Computer Programmer.

.....

(ii) Computer Technician.

.....

(iii) Database Administrator.

.....

22. (a) (i) Explain the function of an input device. (02 marks)

.....

.....

.....

(ii) Give **one** example of an:

Input device ..... (01 mark)

Output device..... (01 mark)

(b) Define a device driver in a computer. (02 marks)

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

(c) Name any **three** system requirements considered before installing windows operating system on a computer. (03 marks)

(i) .....

(ii) .....

(iii) .....

(d) Give **one** reason why a computer may be restarted. (01 mark)

.....  
.....

23. (a) What is a formula in a spreadsheet? (02 marks)

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

(b) Describe how names on a list of members can be sorted in ascending order in a spreadsheet. (02 marks)

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

- (c) The manager of Muvule supermarket uses a database to store data about groceries they sell as reflected in the part of the database below. Use it to answer questions that follow:

BARCODE	PRODUCER	GROCERY	NUMBER IN STOCK
0049179000794	Herbot	Frozen carrots	412
0027200190653	Ago Vet	Chicken	725
0010029000016	Uwanga	Margarine	578
0014559021017	Magaga	Garlic powder	306
00104790012133	Muyawo	Baking Powder	613

- (i) How many records are there in this part of the database?  
(01 mark)

.....

- (ii) How many fields are there in this part of the database?  
(01 mark)

.....

- (iii) If the records in the database are sorted in descending order of **NUMBER IN STOCK**, what will be the barcode of the first record in the database after it has been sorted? (02 marks)

.....

- (iv) Give the name of the field that contains numeric data.  
(01 mark)

.....

.....

- (v) Explain why the manager assigned **BARCODE** as the primary key.  
(01 mark)

.....

.....

.....

24. (a) Describe the following terms:

- (i) Repeaters. (02 marks)

.....

.....

.....

.....

(ii) Gateway. (02 marks)

.....

.....

.....

.....

(b) State any **two** types of data transmission media. (02 marks)

(i) .....

(ii) .....

(c) List any **four** major design considerations of a website. (04 marks)

(i) .....

.....

(ii) .....

.....

(iii) .....

.....

(iv) .....

.....

25. (a) Describe a **footnote** in a Word processing document. (02 marks)

.....

.....

.....

.....

(b) Name the **two** types of page orientation. (02 marks)

(i) .....

(ii) .....

(c) State what is meant by the action **cut and paste** while working on the computer. (01 mark)

.....

.....

.....



(d) Give any **two** presentation software. (02 marks)

(i) .....

(ii) .....

(e) (i) Differentiate between **slide transition** and **slide animation** as applied to presentation software. (02 marks)

.....

.....

.....

.....

(ii) Outline the main purpose of the **slide sorter view**. (01 mark)

.....

.....

26. (a) (i) Explain the term **Application software**. (02 marks)

.....

.....

.....

(ii) Give **two** examples of application software. (02 marks)

.....

.....

(iii) Outline **two** factors to consider before buying an application software. (02 marks)

.....

.....

.....

.....

(b) Define the following terms in relation to computer programming.

(i) Source Code. (02 marks)

.....

(ii) Keyword. (02 marks)

.....

.....

### SECTION C (20 MARKS)

*Answer only one question from this section.*

*Answers to the question must be written in the answer booklet provided.*

27. A user wishes to buy a laptop computer. Describe five specifications to consider when buying the laptop. (20 marks)
28. Assuming you have secured a contract of networking computers in a computer laboratory, sketch and explain four possible network layouts you can present to the contractor for approval. (20 marks)
29. (a) Explain three reasons why a flowchart would be used instead of a pseudocode to solve a problem. (06 marks)
- (b) A school uses a simple computerised system to manage students' results. The school administers three examinations namely; beginning of term (BOT), middle of term (MOT) and end of term (EOT). The systems administrator has set the system to get the total of the three examinations and find the average which is used to promote the students to the next class. If the average mark is greater than 60, the student is promoted. If the average mark is from 50 to 60, the student repeats. If the average is below 50 the student is dismissed. Write a suitable algorithm that will manage the students' results. (14 marks)