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. 2022
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

*Answer **all** questions in this section.*

1. The following devices were invented during the mechanical era **except**

   A. Leibniz calculator.
   B. Analytical engine.
   C. Pascal's arithmetic machine.
   D. Logarithm tables.

2. Which of the following HTML tag doesn't require an end tag?

   A. < U >
   B. < BR >
   C. < B >
   D. < UL>

3. An intranet is a

   A. security system to protect against external threats.
   B. network that is used to connect suppliers and producers line.
   C. private network within an organization that may have one or more LANs.
   D. programme that increases the performance of a large organization.

4. One million characters of storage capacity is a

   A. Terabyte.
   B. Kilobyte.
   C. Gigabyte.
   D. Megabyte.

5. A measure that can be employed to prevent unauthorized access to a wireless network is

   A. firewall activation.
   B. burglar proofing.
   C. software licensing.
   D. software piracy.

6. The acronym HTTP stands for

   A. High Text Transmission Protocol.
   B. Hyper Text Transfer Protocol.
   C. Hyper Text Transformation Protocol.
   D. High Text Transfer Protocol.
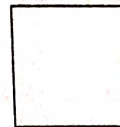
7. In word processing, the process of trimming parts of an image is referred to as

    A.   editing.
    B.   compressing.
    C.   resizing.
    D.   cropping.

8. The term computer software refers to

    A.   tangible parts of a computer.
    B.   computer programming languages.
    C.   a set of instructions that run a computer.
    D.   a set of processes in a computer.

9. The group of storage devices that use reflected light to read and write data stored on them is

    A.   flash disk, floppy diskette and zip disk.
    B.   memory stick, memory card and flash disk.
    C.   compact disk, digital versatile disk and blu-ray disc.
    D.   smart card, micro film and microfiche.

10. Distinguish between a webpage and a website.

    A.   A webpage is a hypertext document on the www while a website is a collection of related webpages.
    B.   A webpage is the main page on a website while a website is a collection of related webpages.
    C.   A webpage is a hypertext document on the www while a website is the uniform resource locator.
    D.   A webpage is a hypertext document on the www while a website is the main tool of the www.

11. Given below are features of Ms-Excel application window **except**

    A.   horizontal scrollbar.
    B.   horizontal ruler.
    C.   cell pointer.
    D.   formular bar.

12. The number of years the copyright law in Uganda offers protection to a computer program is

    A.   70.
    B.   100.
    C.   60.
    D.   50.

Turn Over

13. Memory management in a computer is a function of

    A.   Application software.
    B.   Operating system software.
    C.   Utility programmes.
    D.   Programming languages software.

14. Which of the following is a feature of presentation software?

    A.   Mail merger.
    B.   Forms.
    C.   Animations.
    D.   Reports.

15. The ability to hold online meetings with several people in different geographical locations is referred to as

    A.   video conferencing.
    B.   short messaging services.
    C.   online charting.
    D.   instant messaging services.

16. A computer may not boot due to the failure of the following **except** the

    A.   hard disk.
    B.   application software.
    C.   power supply.
    D.   system software.

17. The appropriate field data type that should be assigned to the number **BK702789** is

    A.   Text.
    B.   Memo.
    C.   Number.
    D.   Lookup.

18. The term **working memory** refers to

    A.   auxiliary memory.
    B.   permanent memory.
    C.   Read Only Memory.
    D.   Random Access Memory.

19. An authentic software product is determined by the product

    A.   brand name.
    B.   digital stamp.
    C.   key.
    D.   code.

20. Arrange in order the following steps in information processing:

(i) Input of data   (ii) processing of data

(iii) output of data   (iv) storage of data

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

SECTION B: (60 MARKS)

Answer all questions in this section.
All answers must be written in the spaces provided.

21.   (a)   Explain the following characteristics of a computer:

      (i)   Diligence.   *(02 marks)*

....

....

      (ii)   Versatility.   *(02 marks)*

....

....

   (b)   Give **one** reason why it is important to study computer.   *(02 marks)*

....

....

   (c)   Describe **two** ways in which computers can be used to commit crimes.
                                                   (04 marks)

      (i)   ....

....

      (ii)   ....

....

22. **(a)** Most personal computers have three communication ports.

(02 marks)

(i) What is a port?

....

....

....

(03 marks)

(ii) Give examples of these ports.

....

....

....

(02 marks)

(b) Give **two** reasons why a disk is formatted.

....

....

....

(03 marks)

(c) Write **three** steps involved in formatting a disk.

....

....

....

23. **(a)** The spreadsheet below shows scores for four houses during their sports. Use it to answer questions that follow.

	A	B	C	D	E	F
1	HOUSE	NETBALL	SWIMMING	FOOTBALL	VOLLEYBALL	TOTAL SCORE
2	Red	6	5	8	10	
3	Blue	10	9	5	9	
4	Yellow	3	7	9	8	
5	Green	7	6	11	10	
6						

(i) Write the cell address of the active cell.   (*01 mark*)

………………………………………………...………………………

(ii) Write a function that will return the value of the total score for Yellow House.   (*02 marks*)

………………………………………………...………………………

(iii) Write the function that will compute the highest total score.   (*02 marks*)

………………………………………………...………………………

(b) Describe each of the following terms used in databases:

(i) A table.   (*01 mark*)

………………………………………………...………………………

………………………………………………...………………………

(ii) Query.   (*02 marks*)

………………………………………………...………………………

………………………………………………...………………………

(iii) Data types.   (*02 marks*)

………………………………………………...………………………

………………………………………………...………………………

24. (a) Explain the meaning of the following data transmission modes and mention **one** example in each case:

(i) Simplex transmission.   (*02 marks*)

………………………………………………...………………………

………………………………………………...………………………

Example   (*01 mark*)

………………………………………………...………………………

(ii) Full duplex transmission. *(02 marks)*

....

....

Example *(01 mark)*

....

(b) State the function of hyperlinks in web publishing. *(01 mark)*

....

....

(c) State **three** challenges of maintaining a website. *(03 marks)*

....

....

....

25. (a) Explain the following tools as applied in word processing:

(i) Caption. *(02 marks)*

....

....

(ii) Footnote. *(02 marks)*

....

....

(iii) Thesaurus. *(02 marks)*

....

....

(b) State the importance of a presentation software. *(02 marks)*

....

....

(c) What is a master slide in a presentation software? (*02 marks*)

....

....

26. (a) (i) Explain the term utility programs. (*02 marks*)

....

....

     (ii) Name **three** examples of utility programs. (*03 marks*)

....

....

....

(b) (i) State **three** advantages of packaged software. (*03 marks*)

....

....

....

....

....

     (ii) Give any **two** applications in a packaged software. (*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. You have been given a task to network computers in a room. One of the computers should be set up as a proxy server for other computers. Describe the steps you would follow to set up the network. *(20 marks)*

28. (a) Explain any **five** technologies that have made business transactions cheaper. *(10 marks)*

    (b) Give **five** reasons that have led to slow adoption of technology in Uganda. *(10 marks)*

29. (a) Describe steps that can be taken to copy a file from a hard disk to a flash disk. *(10 marks)*

    (b) Explain the functions of any **five** hardware components of a computer system unit. *(10 marks)*

END