STUDENT'S NAME: ……………………………………………………………………………

SCHOOL NAME: ………………………………… **INDEX NUMBER** ………………
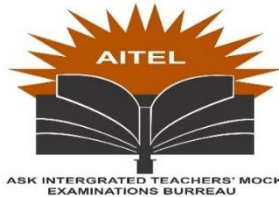
840/1
COMPUTER STUDIES
Paper 1
July/Aug. 2022
2 ½ hours

AITEL JOINT MOCK EXAMINATIONS

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 booklets provided.*

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

FOR EXAMINER'S USE ONLY										
MCQ	Q.21	Q.22	Q.23	Q.24	Q.25	Q.26	Q.27	Q.28	Q.29	Total

SECTION A: (20 marks)

1. Which of these are minimum system requirements of software
   - A. Space, memory, CPU, hard drive
   - B. USB, Optical Drive, CPU
   - C. OS, ROM, Speakers
   - D. OS, USB, Keyboard, Mouse

2. A software which is free is called
   - A. Free ware
   - B. Share ware
   - C. Open source software
   - D. Offline software

3. ……………is not a valid database datatype.
   - A. Auto number
   - B. Currency
   - C. Memo
   - D. Picture

4. What is the purpose of a UPS?
   - A. Allows to connect to more devices
   - B. Shuts down the computer before power surge
   - C. Improves PC performance
   - D. Protects the PC from power surges

5. A light sensitive device that converts the printed text, drawing or other images into digital form is called……………
   - A. Plotter
   - B. Printer
   - C. Scanner
   - D. OMR

6. Which function in Excel tells how many numeric entries are there?
   - A. NUM
   - B. SUM
   - C. COUNT
   - D. RANK

7. A computer game on a pc keeps on freezing. What could be the cause of this?
    A. Insufficient system requirements
    B. Software bug
    C. Hardware failure
    D. A malware

8. Information travels between components to motherboard through?
    A. CMOS
    B. Buses
    C. Bays
    D. Flash memory

9. Why would one use "open with" when opening a file in a computer instead of just opening a file?
    A. To find a compatible software
    B. To choose an alternative program
    C. To access a program when it won't open
    D.   To remove a virus from the file

10. A spelling checker is also called ……….
    A.   Electronic encyclopaedia
    B.   Electronic thesaurus
    C.   Electronic dictionary
    D.   None of these

11. …….consists of one or more twisted-pair wires bundled together
    A.   Twisted –pair cable
    B.   Coaxial cable or coax
    C.   Fibre- optic cable
    D.   Infrared cable

12. The number of colors a video card can display is determined by its……………..
    A.   Pixels
    B.   Hertz
    C.   Woofers
    D.   Bit depth

13. …………is a high –level language commonly used for writing scientific programs
    A. BASIC
    B. COBOL
    C. FORTRAN
    D. PASCAL

14. Two types of system software are the ……………………
    A.   Operating system and application programs
    B.   User interface and application programs
    C.   Operating system and utility programs
    D.   User interface and utility programs.

15. All of the following are commonly used types of non-impact printers except………
    A.   Laser printers
    B.   Ink-jet printers
    C.   Thermal printers
    D.   Dot-matrix printers

16. A (n)……………is a utility that removes an application as well as any associated entries in the system files.
    A.   File compression utility
    B.   Backup utility
    C.   Uninstaller
    D.   Screen saver

17. Scientists use ………………. To communicate with colleagues around the world
    A.   LANS
    B.   The internet
    C.   MANS
    D.   Blue tooth

18. There are …………………..kilobytes(KB) in two megabytes (MB)
    A.   1000
    B.   1024
    C.   2000
    D.   2048

19. A polymorphic virus……………………………
  A.   Modifies its program code each time it attaches itself to another program or file
  B.   Is a malicious-logic program that copies itself repeatedly in memory or on a disk drive   until no memory or disk space remains.
  C.   Is a malicious –logic program that hides a legitimate
  D.   Infects a program file, but still report the size and creation date of the original uninfected program.

20. ……………..is a common data type consisting of a lengthy text entries
  A.   Object
  B.   Date/time
  C.   Memo/long text
  D.   Hyperlink

SECTION B: (60 MARKS)
*Answer **all** questions in this section in the spaces provided*

21. (a) Differentiate between **text wrap** and **word wrap** as used in word processing.
                                                                                    (2 marks)
  ………………………………………………………………………………………
  ………………………………………………………………………………………
  ………………………………………………………………………………………
  ………………………………………………………………………………………

  (b) Name **two** types of orientation.   (2 marks)
   i.   …………………………………………………………………….………
   ii.   …………………………………………………………………….………
  (c) What is the use of **quick access toolbar in** word processing?   (1 mark)
  ………………………………………………………………………………………
  ………………………………………………………………………………………

(d) Differentiate between **slide animation** and **slide transition** as applied in Microsoft power point. (2 marks)

………………………………………………………………………………………………

………………………………………………………………………………………………

………………………………………………………………………………………………

………………………………………………………………………………………………

(e) Give at least **two** examples of presentation software. (2 marks)

i. ………………………………………………………………………………………

………………………………………………………………………………………

ii. ………………………………………………………………………………………

………………………………………………………………………………………

(f) Outline the purpose of **slide master**. (1 mark)

………………………………………………………………………………………………

………………………………………………………………………………………………

22. (a) Name the **scientist** that is remembered to be the father of computers who invented the first analytical engine. (2 marks)

....

(b) Convert **172** decimal to binary base. (2 marks)

(c) How many **bits** are in the following words?

    i.   SCHOOL-FEES   (2 marks)

    ii.   M.I.P.S   (2

                marks)

(d) Differentiate between **a bit** and **a byte** as used in units of measuring memory.

                                                     (2 marks)

……………………………………………………………………………………………

……………………………………………………………………………………………

……………………………………………………………………………………………

23. (a)   What are **biometric** devices as ICT security devices?   (2 marks)

……………………………………………………………………………………………

……………………………………………………………………………………………

……………………………………………………………………………………………

……………………………………………………………………………………………

(b) Give at least **two** examples of biometric devices and their function.

    (i)   Example   (2 marks)

………………………………………………………………………………………

………………………………………………………………………………………

       Function

....

....

(ii) Example   **Turn Over**

....

....

Function

....

....

(c) Outline **two** basic parts of the CPU.   (2 marks)

i.   ....

....

ii.   ....

....

(d) What is the **main** function of system clock during processing data?   (1 mark)

....

....

24.   (a)   What is an **electronic mail**?   (1 mark)

....

....

....

(b) Give at least **two** advantages of using electronic mail over snail mail.   (2 marks)

i.   ....

....

ii.   ....

....

(c)   What is **email bounce**?   (1 mark)

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

(d) List **two** types of email bounce. (2 marks)

i. ....

....

ii. ....

....

(e) Differentiate between **domain name** (DN) and domain **name system** (DNS).

(2 marks)

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

25. (a) What is **absolute cell** referencing as used in spread sheet application? (2 marks)

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

(b) Define the following terms as used in spread sheet application? (3 marks)

i. Range

....
....

ii. Cell

....
....

iii. Function

....
....

(c) A computer student did a practical exam and got the result as shown in the screen
below.

A4		▼	f_x	=A1+A2+A3
	A	B	C	D	E
1	100				
2	200				
3	january				
4	#VALUE! ◇				
5					

i.   Explain the meaning of the error a student made in the figure above   (1 mark)

…………………………………………………………………………………….…………

…………………………………………………………………………………….…………

ii.   What can be done for the error above to be corrected?   (1 mark)

…………………………………………………………………………………….…………

…………………………………………………………………………………….…………

(d) What is a **database management system** (DBMS)?   (1 mark)

……………………………………………………………………………………………...

……………………………………………………………………………………………...

……………………………………………………………………………………………...

(e) Give any **two** examples of database management system.   (2 marks)

i.   …………………………………………………………………………………………

…………………………………………………………………………………………

ii.   …………………………………………………………………………………………

…………………………………………………………………………………………

26. (a) Differentiate between **bounded** transmission medium and **unbounded** transmission
medium.   (2 marks)

………………………………………………………………………………………………………

………………………………………………………………………………………………………

………………………………………………………………………………………………………

………………………………………………………………………………………………………

(b) Give any **two** basic requirements of setting up a network. (2 marks)

i. ………………………………………………………………………………………………

………………………………………………………………………………………………

ii. ………………………………………………………………………………………………

………………………………………………………………………………………………

(c) What is a **computer security risk**? (1 mark)

…………………………………………………………………………………………………

…………………………………………………………………………………………………

(d) What is the difference between **hardware theft** and **hardware vandalism**?

(2 marks)

…………………………………………………………………………………………………

…………………………………………………………………………………………………

(e) Define following terms as used in computer security. (3 marks)

i. Software piracy

…………………………………………………………………………………………………

…………………………………………………………………………………………………

ii. Cyber extortion

…………………………………………………………………………………………………

…………………………………………………………………………………………………

iii. Denial of service attack

…………………………………………………………………………………………………

…………………………………………………………………………………………………

SECTION C: (20 marks)

Answer only **one** *question from this section on the answer sheet(s) provided*

27. a) Explain any **five** cybercrimes committed by computer users. (10 marks)

b) Give at least **five** protection measures against such crimes mentioned above.
(10 marks)

28. Explain **positive** and **negative** implications of using computers in our society.
(20 marks)

29. Describe trouble shooting tips one can use to overcome the following te
issues.
   a) Computer is frozen   (5 marks)
   b) Printer not responding   (5 marks)
   c) Keyboard not working   (5 marks)
   d) Computer is slow   (5 marks)

END