Name..Signature................................

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COMPUTER STUDIES
Paper 1 (One)
2 hours
July/Aug 2022

NALWEYO SECONDARY SCHOOL MOCK
Uganda Certificate of Education
COMPUTER STUDIES
PAPER 1(Theory paper)
Time: 2 hours

INSTRUCTIONS TO CANDIDATES

✓ Write your **NAME, SCHOOL, 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**. The objectives should be neat, visible and not crossed out.

✓ 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 on the answer sheets provided.

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MCQ	Q21	Q22	Q23	Q24	Q25	Q26	Q26	Q27	Q28	Q29	Total

SECTION A
Attempt all questions

1. Each dot of phosphor material on a CRT screen consists of a.......... phosphor

   A. blue, a red and a yellow   C. red, a green and a blue

   B. green, a yellow and a blue   D. yellow, a green and red

2. Printed information, called......, exist physically and more permanent form of Output than that represented on a display device.

   A. Soft copy   C. Hard copy

   B. Carbon copy   D. Desk copy

3. .... languages are low-level languages.

   A. machine and assembly

   B. Assembly and third generation

   C. Third generation and Forth generation

   D. Forth generation and Fifth generation

4. A (n) .... program is responsible for creating file directories of a computer system.

   A. data base management   C. defragmenter

   B. operating system   D. compiler

5. Unlike a software suite, the package in an integrated software package...........

   A. Cannot be purchased individually.

   B. Each use a different interface.

   C. Do not share any common features.

   D. All of the above.

6. Which of the following is an output device?

   A. OCR.   C. VDU.

   B. MICR.   D. OMR

7. A .... Is responsible for the maintenance of the hardware of a computer system.

                           B. Computer technician

                           C. Programmer

   A. System analyst.   D. Web master.

8. While waiting for a device, such as a printer, to become idle, the operating system places items in ....

   A. Pages   B. Buffers

C. Menus   D. Clients

9. The .... Entered into a cell identifies the data and helps organize a
worksheet
A. Label.   C. Formula
B. Value   D. Function

10. A (n) .... organizes and coordinates how multiple users' access and
share resources on a network.

A. Stand-alone os   C. Embedded os
B. Network os   D. Registered os

11. In a .... , a cable forms a closed loop, with all
computers and devices arranged along the loop.
A. Bus network.   C. Hierarchical network
B. Ring network   D. Star network

12. With ....,a computer, a modem, and a regular telephone line are used
to dial into an ISP or OSP.
A. Dial-up access.   C. A cable modem.
B. DSL   D. All of the above.

13. An example of a (n) .... is an un installer, which removes a program
that has been installed on a computer.
A. Operating system   C. User interface
B. Application program   D. Utility program

14. Physical transmission media used in communications include all the
following except ....
A. Microwave cable   C. Coaxible cable
B. Twisted-pair cable   D. Fiber-optic cable

15. Computer hardware includes all of the following except
....
A. A system unit
B. Input and output devices
C. Storage and communications device
D. Application programs

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

17. An instruction register is used for ....
A. Coding an instruction
B. Holding an instruction
C. Decoding an instruction
D. Encrypting an instruction

18. All of the following are examples of devices usually installed in external drive bays (exposed drive bays) except ....
A. Floppy disk
B. CD-ROM
C. Tape
D. Hard disk

19. The largest key on the keyboard is the
A. Return key
B. Space key
C. Caps Lock
D. Backspace key

20. The CPU consists of A. ALU and CU
B. the CU only
C. the ALU only
D. programs only

SECTION B:

21 (a). Differentiate between a **server** and a **client computer.** (02 mrks)

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

(b). What is the function of the following network devices.
  i.   Bridge (02 mrks)

....
....

  ii.   Switch (02 mrks)

....
....

  iii. Router (02 mrks)

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

  iv.   Modem (02 mrks)

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

22. (a) What is meant by a **cell** in relation to spreadsheet. (01 mrk)

....
....

(b). Differentiate between **Relative** and **Absolute** cell references. (04 mrks)

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

(c) . The table below shows a worksheet which Nabirye was working on. Use it to answer the questions that follow.

ID Number	Name	Item 1	Item 2	E
100000	Boaz	990		29.1
100002	Arafah	660		11.8
########	Thomas	880		#DIV/0!
		#NAME?		

i). Suggest the reason why the entry incell A4 appeared as shown. (01 mrk)

....

....

ii). How do you Rectify the error in cell A4? (01 mrks)

....

....

iii). What does the error in cell E4 mean? (02 mrks)

....

....

iv). How do you correct the error in cell C5? (01 mrks)

....

....

23. (a) What is meant by the term computer generation? (02 marks)

....

....

(b). State the key technological advancement in the following generations. (01mrk @)

i.   Second generation

....

ii.   First generation

....

iii.   Third Generation

....

iv.   Fourth generation

(c). State any two characteristics of;

   i.   Third generation computers **(02 marks)**

....

....

   ii.   Fifth generation computers   **(02 marks)**

....

....

24. a) Distinguish between **bandwidth** and **guided transmission** medium? *(04 marks)*

....

....

....

....

....

(b). Outline any three reasons why would an organization would prefer to use **fiber optic cables** rather than other kinds of data transmission cables. *(03 marks)*

....

....

....

....

....

....

c) State any four services provided by an internet service provider *(04 marks)*

....

....

....

....

....

25. a). write the following acronyms in full. *(@01 mark)*

i) TCP

....

ii) CMOS

....

iii) ALU

....

iv) VRAM

....

(b). Explain the functions of the following in the computer system.*(@01mrk)*

   i.   Registers

....

ii.   CMOS

iii.   ALU

(c). State the three logical operations performed by the ALU. (*03mrks*)

26. a). Differentiate between **Hacking** and **Cyber vandalism**. (02 marks)

(b). State four methods of controlling un authorized access to the computer system. **(04 marks)**

(c). State *two* characteristics of a good password. **(02 marks)**

(d). Give *two* reasons why people create viruses. **(02 marks)**

SECTION C
Attempt only one question

27.a) Explain the functions of the following features of an e-mail *(04 marks)*
i. Forward
ii. BCC
iii. Address book,
iv. Draft
b) Explain any four reasons why an individual would prefer e-mail communication to ordinary means of sending postal mails? *(08 marks)*
c) Mention any three draw backs of using e-mail communication? *(06 marks)*

d) Differentiate between a soft bounce and a hard bounce in emails. *(02 marks.)*

28. An instruction given to a smartphone for processing goes through a machine cycle.
a). Define the term **machine cycle?** (02mrks)
b). Explain the four stages in machine cycle. (08mrks)
c). Which specific device on the smartphone executes the machine cycle?

(01mrks)
d). Explain the importance of having the control unit in a computer.

(03mrks)
e). Explain three input and three output devices which can be used in a school setting.

(06mrks)

29. a). Define the term Cybercrime. (02mrks)
b). Describe any four cybercrimes that you know. (08mrks)
C). Explain any five causes of computer system failure. (10mrks)

"If Men Can, Why Not You"
END