NAME ………..

RANDOM/PERSONAL No. …………………………../……………… **SIGNATURE** ……………………………………

840/1
COMPUTER STUDIES (Theory)
Paper 1
WEDNESDAY, 22nd August 2018 (Afternoon)
2 hour 30 minutes

ACHOLI SECONDARY SCHOOLS EXAMINATIONS COMMITTEE

Uganda Certificate of Education

Joint Mock Examinations, 2018

COMPUTER STUDIES

Paper 1

2 hours 30minutes

INSTRUCTIONS TO CANDIDATES:

- ✓ Write your name, signature, random and personal number in the spaces provided above.
- ✓ This paper is made up of **three** sections: **A**, **B** and **C**.
- ✓ Section **A** contains **20 compulsory** objectives-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** essay questions. Answer only **one**. Answers to section **C** must be written in the answer sheet / booklet provided.

For Examiner's Use Only										
MCQ	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**Total**

SECTION A (20 marks)

1. Which of the following does not fully represent classification of computers by function?
    A. Mainframe, micro, mini computers
    B. Mini, personal, analog computers
    C. Digital, mainframe, micro computers
    D. Personal, analog, micro computers

2. Formatting in word processing refers to:
    A. Deleting, inserting, and spell checking the content of a document
    B. Enhancing the appearance of the content of a document
    C. Deleting all data found in a flash disk
    D. Deleting all the content of a hard disk, and replacing it with new content

3. Abalo is planning to create an invitation card for her friend to her school leaver's party. Which of the following is the most suitable software to use?
    A. MS Word   B. MS Power Point
    C. MA Access   D. MS Publisher

4. A ………… is a software that access and displays web pages on your desktop.
    A. Search engine   B. Browser
    C. Compiler   D. Macro media dream weaver

5. What type of objective is used to find answers to questions about the data in a database?
    A. Macro   B. Query   C. Module   D. Form

6. In which category of computer software does an antivirus belong?
    A. An operating system   B. A Programming language
    C. A utility programme   D. An application programme

7. The development of input and out devices such as the Mouse, Keyboard and Monitor was realised in the …………… generation of computers.

    A. second   B. third   C. fourth   D. fifth

8. Data and information on a computer can best be protected through:
A. installing fire alarms in the computer laboratory
B. changing the file name of the documents
C. creating backup copies on different storage for safe keeping in different areas
D. formatting the hard disk

9. The following are peripheral devices except:
A. mother board   B. mouse   C. printer   D. CRT monitor

10. The term used to refer to the word or group of words that appear in the bottom margin of a page is:
A. end note   B. foot note   C. hyper-text word   D. footer

11. A network model with a dedicated device/computer that manages network resources and requests can best be called:
A. a peer to peer network   B. an internet network
C. a wide area network   D. a client server

12. Through the use of a …….., one can easily navigate through all the pages within a website.
A. page break   B. up-link   C. down-link   D. hyper-link

13. In case of a black out, which device can provide a constant power supply to keep your computer working as you save your work?
A. Power stabiliser   B. Power control unit
C. Generator   D. Uninterrupted power supply

14. The ability of a computer to possess human capabilities is called:
A. humanoid   B. versatility
C. diligence   D. artificial intelligence

15. A ….. is an example of an optical storage device.
A. blu-ray disc   B. microfilm   C. jazz disk   D. zip disks

16. The set of rules and procedures that govern the transfer of e-mails is:
A. TCP/IP   B. SMTP   C. POP   D. FTP

17. Moses saved his project file as 'project.html'. Identify hid file type.
A. Graphics   B. Video
C. Word document   D. Programme

☐

18. The part of the processor that interprets instructions issued by a programme is called:
A. control unit   B. arithmetic/logic unit   C. register   D. data bus

☐

19. In a computer network, a device that sends data signals to the appropriate receiver using the fast available path is the:
A. router   B. hub   C. switch   D. bridge

☐

20. The ability of a computer gifted with one processor to perform more than one job at a time is called:
A. multi-processing   B. multi-tasking
C. spooling   D. versatility

☐

SECTION B (60 marks)

Answer all questions in this section. Write answers in the spaces provided

Question 21:
(a)   Explain the following:
(i)   Why Ada Bryon Lovelace was named the world's first computer programmer?   (01 mark)

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(ii)   Why was Charles Babbage referred to as the 'Father of Computers'?
                                                                    (01 mark)

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(b)   Give five advantages of the third generation computers over the second generation.   (05 marks)

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(c)   Suggest any two developments in the physical set up of the fourth generation
        computers.   (02 marks)

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(d)   Name one example of a computer developed in the first generation. (1mark)

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Question 22:
(a)   Explain the following terms as used in Information Technology:
        (i)   Extranet   (02 marks)

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        (ii)   Intranet   (02 marks)

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        (iii)   Internet   (02 marks)

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(b)   Mention any two reasons for networking computers in your school computer laboratory.   (02 marks)

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(c)   With exception of computers, give any two requirements for a functional computer network.(02 marks)

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Question 23:

(a)   Distinguish between a hardcopy and a softcopy.   (02 marks)

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(b)   Mention three advantages display devices have over printers.   (03 marks)

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(c)   Identify the hardware devices that best suits the following activities:
         (i)   To record the video of a wedding ceremony.   (01 mark)

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         (ii)   To capture images during a video conference between two parties.
                                                                                                        (01 mark)

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(d)   Briefly explain the function of the following keyboard shortcuts.
         (i)   Ctrl + S   (01 mark)

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(ii)   Alt + F4   (01 mark)

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(iii)   Alt + Tab   (01 mark)

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(iv)   Ctrl + V   (01 mark)

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Question 24:
(a)   Distinguish between operating systems and utility programmes. (04 marks)
(i)   Operating system

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(ii)   Utility programmes

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(b)   Explain any two categories of programming languages you know.(04 marks)

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(c)   Give one similarity and one difference between a worm and a virus.
       (i)   Similarity   (01 mark)

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(ii)   Difference   (01 mark)

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Question 25:

(a)   What is a database?   (01 mark)

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(b)   Mention any one example of database management software.   (01 mark)

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(c)   Explain the following features as used in presentation software:
       (i)   Slide show(02 marks)

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       (ii)   Slide sorter   (02 marks)

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       (iii)   Slide layout   (02 marks)

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(d)   Give any two advantages of an electronic word processor over a manual
       typewriter.   (02 marks)

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Question 26:

(a)   Write the following abbreviations in full.   (04 marks)

     (i)   CMOS

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     (ii)   BIOS

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     (iii)   HTTP

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     (iv)   CAD

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(b)   You have just created a word document and created a password to safeguard
     it. State one way in which you can ensure the safety of the password.
                                                               (01 mark)

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(c)   Computers, like any other electronic equipment, need special care and
     attention to perform well. Mention any four precautions that must be
     observed to ensure the safety of computers in the computer laboratory.
                                                               (04 marks)

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SECTION C (20 marks)

Answer only **one** *question from this section. Answers to this question must be done on the answer sheets / booklet provided.*

Question 27:
Explain why your school should have a website.   (20 marks)

Question 28:
Suggest ways in which computers can be used in business and industry in your country.   (20 marks)

Question 29:
Given a quadratic equation in the form: $ax^2 + bx + c = 0$, where a, b and c are constants.

      (a)   Design algorithm to compute the roots of quadratic equation.

                    (05 marks)

      (b)   Draw a flowchart for determination of the roots of quadratic equation.

                    (05 marks)

      (c)   Write the Pseudo codes for quadratic equation.   (05 marks)

      (d)   Develop a C programme that can compute any quadratic equations in the form: $ax^2 + bx + c = 0$.   (05 marks)

THE END