Uganda Advanced Certificate of Education

2hours 30minutes

Instructions to candidates

- ➤ Attempt all questions in this paper
- ➤ The paper is made up of 20 equally weighed questions
- ➤ Write in black or blue in the spaces provided on the question paper. All the answers should be written in the spaces provided.
- ➤ No additional materials (answer sheets) are required
- ➤ The number of marks is given in brackets () at the end of each question or part of question.
- ➤ The maximum mark for the paper is 100%

1. a) What is a peripheral device interface? (01 mark)

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

b) Name any two devices that are connected to a computer through the PS/2 port. (02 marks)

I. …………………………………………………………………………………………

II. …………………………………………………………………………………………

c) Mention any two advantages of USB interface cable over other cables in the computer.

(02 marks)

I. …………………………………………………………………………………………

II. …………………………………………………………………………………………

2. a) Define the term file extension. *(01 mark)*

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

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

b) Give the application programs that can be used to open the following files. *(04 marks)*

(i)   mockexam.mp3   …………………………………………………………………

(ii)   mockexam.ppt   …………………………………………………………………

(iii)   mockexam.html   …………………………………………………………………

(iv)   mockexam.jpeg   …………………………………………………………………

3. a) Define an icon as used in a desktop environment. (01 mark)

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

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

b) State three common features found on the desktop. (03 marks)

I. …………………………………………………………………………………………

II. …………………………………………………………………………………………

III. …………………………………………………………………………………………

c) What is the primary role of a recycle bin? (01 marks)

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4. a) Distinguish between software upgrade and software update.   (02 marks)

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b) Why is it necessary to carryout regular inspection of the computer system?   (03 marks)

I.   ……..

II.   ……

III.   ……..

5. a) Define mail merging.   (01 mark)

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b) Give any two advantages of mail merging over copying and pasting several times to mass mail
a document.   (02 marks)

   I.   ………………………………………………………………………………………………

   II.   ………………………………………………………………………………………………

c) Mention one advantage of previewing a document before printing.   (02 marks)

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6. a) Distinguish between a volatile device and non volatile device.   (02 marks)

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b) Mention three magnetic storage devices.   (03 marks)

   I.   ………………………………………………………………………………………………

   II.   ………………………………………………………………………………………………

  III.   ……………………………………………………………………………………………….

7. a) Mention any two services offered by the internet.   (02 marks)

   I.   ………………………………………………………………………………………………

   II.   ………………………………………………………………………………………………

b) Explain the following types of websites.   (03 marks)

Blog

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Wiki

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Advocacy website

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8. (a) What is a spreadsheet program?   (1 Mark)

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(b) Define the following spreadsheets terms.   (02 Marks)

(i) Relative referencing

……

……

(ii) Absolute referencing

……

……

  c) Mention two examples of spreadsheet programs.   (02 marks)

    I. ……

    II. ……

9. (a) Define data communication.   (01 marks)

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(b) (i) What factors obstruct fast data transmission?   (02 marks)

    I. ……

    II. ……

(ii) Explain the following terms in relation to data communication.   (02 marks)

    a) Full duplex

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

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

   b) Half duplex

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

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

10. A computer user may interact with a computer either through graphical user interface or through command line interface.

a) State two features of a graphical user interface.   (02marks)

   I.   ……………………………………………………………………………………………

   II.   ……………………………………………………………………………………………

b) Give two advantages of using a GUI based system over a command line interface. (02 marks)

   III.   ……………………………………………………………………………………………

   IV.   ………………………………………………………………………………………………

c) Some computer systems still use command line interface. State one advantage of using the command line interface.   (01 mark)
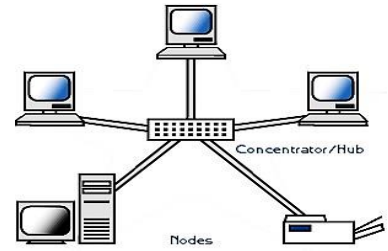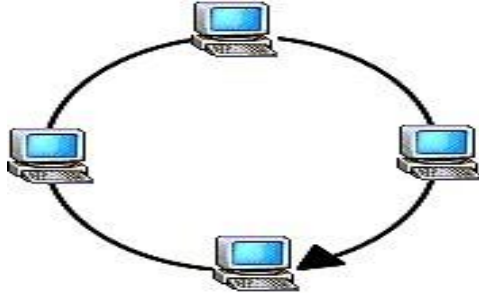
………

………

11. Tick TRUE or FALSE next to each of these statements.   *(05 marks)*

		TRUE	FALSE
i)	An internet browser is used to look at pages on the world wide web.		
ii)	Notebook computers don't have hard disk drives.		
iii)	Teleprocessing is the ability of individuals to work from home and communicate results with their office counterparts		
iv)	Computers can measure more than one variable at the same time		
v)	Sensors are computer components for displaying information to the user.		

12. a) Name the following network topologies.   *(02 marks)*

(i)   …………………………….   (ii)   …………………………….

b) Give two advantages of using the network topology in a) (ii) above.   *(02 marks)*

(i)   …………………………………………………………………………………

(ii)   …………………………………………………………………………………

c) State one disadvantage of using the network topology in a) (i) above.   *(01 mark)*

(i) ……………………………………………………………………………………

13. Write the following abbreviations in full.   (05 marks)

    i.   WAP …………………………………………………………………………………

    ii. BIOS …………………………………………………………………………………

    iii. EULA…………………………………………………………………………………

    iv. GIF …………………………………………………………………………………

    v.   OOPL…………………………………………………………………………………

14. a) Mention two factors you would consider when setting up a computer network. (02 marks)

    I.   …………………………………………………………………………………
    II. …………………………………………………………………………………

b) State one function for each of the following networking devices.   (03 marks)

Firewall

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Router

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Network interface card

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15. a) What is a search engine?   (01 mark)

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b) Outline any two importances of search engines.   (02 marks)

   I. ………………………………………………………………………………………………………

   II. ………………………………………………………………………………………………………

c) Write short notes about the following concepts as used in a networked environment.

(i) Social disconnect

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(ii) Spamming

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16. Your head teacher wishes to start E-learning programme in your school in order to reduce the cost on labour.

a) What is meant by E-learning?   (01 marks)

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b) Advise the head teacher on the problems he is likely to encounter due to the use of E-learning in school. (03 marks)

I. ……………………………………………………………………………………………

II. ……………………………………………………………………………………………

III. ……………………………………………………………………………………………

c) Mention one E-learning software that he can use in school. (01 mark)

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

17. A school has a database which includes details of every student to enable proper storage of students' data. Tick whether the following statements refer to a file, a field or a record. (05 marks)

	FILE	FIELD	RECORD
All the information about a single student			
One piece of information about each student			
A primary key in the table			
All information about all the students			
Age of a student			

18. a) Explain the term green computing as applied in ICTs. (01 mark)

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

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

b) Suggest ways of using ICTs without affecting the environment negatively. (04 marks)

I. ……………………………………………………………………………………………

II. ……………………………………………………………………………………………

III. ……………………………………………………………………………………………

IV. ……………………………………………………………………………………………

19. a) Turker was playing audio on his computer at the same time playing cards, suddenly the computer froze. Identify the keyboard keys Turker would strike to end some tasks. (01 mark)

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

b) Mention two possible causes of the system freeze. (02 marks)

I. …………………………………………………………………………………………………

II. …………………………………………………………………………………………………

c) If Turker carryout trouble shooting on his computer. Explain troubleshooting to him and how

it can be done. (02 marks)

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20. a) Define the term virtual reality as used in ICT. (01 mark)

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

b) List down three areas where virtual reality is used. (03 marks)

I. ………………………………………………………………………………………………

II. ………………………………………………………………………………………………

III. ………………………………………………………………………………………………

c) List down one interactive sensory device used in virtual reality. (01 mark)

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

End