

Candidate's Name:

Signature: Index No.....

S850/1

Subsidiary Information

and Communication

Technology

Paper 1

Jul/Aug 2015

2 $\frac{1}{2}$ hours



MUKONO KAYUNGA JOINT MOCK EXAMINATIONS BOARD

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

*Attempt **ALL** questions in this paper*

*The paper is made up of **twenty** equally weighted questions.*

All answers should be written in blue or black ink in the spaces provided on the question paper.

For Examiners' Use Only																				
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	Total

1. The head teacher wants to replace the current printed school magazine with a slide show that shall be projected on a screen at Visitation Day.

a) Explain what is meant by a **slideshow** as used in presentation software.

(02 marks)

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.....

b) Name **three** features available in a slideshow that makes it better than a hard copy magazine.

(03 marks)

(i)
(ii)
(iii)

2. a) Define the term **computer virus** and give one type of a virus.

(02 marks)

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.....

b) State **three** ways in which a computer user can protect a computer from becoming infected with computer viruses.

(03 marks)

(i)
(ii)
(iii)

3. As technology advances, industries are continuously employing Robots on many production lines.

a) Mention **three benefits** to the company of using robots.

(03 marks)

(i)
(ii)
(iii)

b) State any two disadvantages of using robots to the company.

(02 marks)

(i)
(ii)

4. a) Differentiate between a **video call** and a **voice call** as used in communication.

(02 marks)

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.....
.....

- c) Some mobile telephones (cell phones) can be used to make video calls.
Give **three** advantages of making video calls rather than sending messages by email.
(03 marks)

- (i)
- (ii)
- (iii)

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

	TRUE	FALSE
An internet browser is used to look at pages on the world wide web.		
Desktop computers don't have hard disk drives.		
DTP software can be used to produce magazines.		
Computers can measure more than one variable at the same time		
Sensors are output devices.		

6. Social networking sites (SNS) can be used to describe community-based Web sites, online discussions forums, chatrooms and other social spaces online.

- a) Explain three advantages of social networking sites as a means of communication.
(03 marks)

- (i)
- (ii)
- (iii)

- b) Give any two disadvantages of SNS when misused. (02 marks)

- (i)
- (ii)

7. The head teacher of a school is concerned that students may be hacking into the exam scores database to change their marks.

Other than passwords, describe ICT methods that could be used to prevent this from happening.
(05 marks)

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8. a) Write the following acronyms in full. (02 marks)

(i) CLI

(ii) GUI

b) State three advantages of GUI over CLI when navigating a computer. (03 marks)

(i)

(ii)

(iii)

9. Draw five lines on the diagram to match the software to its most appropriate use. (05 marks)

Software

Desktop publishing software

Measuring program

Presentation software

Inference engine

Database

Use

keeping a record of phone numbers

matching illnesses to symptoms

producing a multimedia slideshow

monitoring the weather

producing a magazine

10. Electronic commerce (**ecommerce**) is a type of business, or commercial transaction that involves the transfer of information across the Internet.

a) Explain three advantages of ecommerce over traditional transactions. (03 marks)

(i)

(ii)

(iii)

b) Give two disadvantages of ecommerce. (02 marks)

(i)

(ii)

11. a) Explain what is meant by the term information processing cycle. (02 marks)

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b) Briefly explain the role played by each of the following in the information processing cycle.

(i) A keyboard
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- (ii) The monitor
.....
.....
- (iii) The hard disk
.....
.....

12. Computers should be regularly serviced for them to function well.

- a) Give three importance of servicing and repairing of computers. (03 marks)
 - (i)
 - (ii)
 - (iii)
- b) Mention two safety precautions that should be taken into consideration in a computer lab. (02 marks)
 - (i)
 - (ii)

13. a) Differentiate between input and output devices. (02 marks)

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.....
.....

- b) Give three examples of removable storage devices. (03 marks)
 - (i)
 - (ii)
 - (iii)

14. a) Explain the term utility programs. (02 mark)

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.....

- b) Mention the functions of each of the following utility programs: (03 marks)
 - (i) Disk defragmenter
.....
.....
 - (ii) Antivirus utility program
.....

(iii) File compression

.....
.....

15. 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) mukajeb.mp3

(ii) mukajeb.csv

(iii) mukajeb.wbk

(iv) mukajeb.html

16. a) Define the term computer communication. (01 mark)

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.....
.....

b) Briefly explain the meaning of the following terms as used in computer communication: (04 marks)

(i) Transmission
.....
.....

(ii) Telecommunication
.....
.....

(iii) Asynchronous transmission
.....
.....

(iv) Synchronous transmission
.....
.....

17. A hospital uses computers to monitor the health of patients.

a) Give three advantages of using computers rather than nurses to do this. (03 marks)

(i)

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- (ii)
-
- (iii)
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b) Explain why analogue to digital conversion is needed when computers are used in monitoring and measuring. (02 marks)

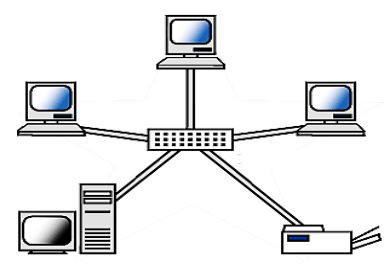
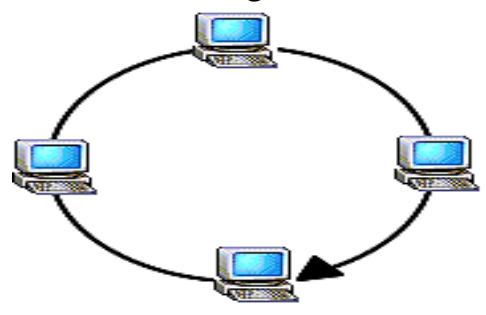
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18. a) Name the following networks. (02 marks)



- (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)

19. A DVD shop owner wants to use a spreadsheet to calculate his profits. This is part of a spreadsheet he could use.

	A	B	C	D	E	F	G
1	Producer	Food type	Number in stock	Cost price	Selling price	Profit	Total profit
2	Maganjo	Wheat flour	123	UGX 2,300	UGX 2,900	UGX 600	UGX 73,800
3	Riham	Biscuits	158	UGX 750	UGX 950	UGX 200	UGX 31,600
4	Roofs	Beefburgers	135	UGX 1,250	UGX 1,550	UGX 300	UGX 40,500
5	Kapats	Gravy	89	UGX 3,200	UGX 3,950	UGX 750	UGX 66,750
6	Starle	Yougurt cream	119	UGX 1,500	UGX 1,850	UGX 350	UGX 41,650
7							
8		Total in stock	624		Overall profit		254300

a) Give the cell reference of the cell that contains 89. (01 mark)

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b) Give the cell reference of a cell that contains label. (01 mark)

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c) Write down the formula that should go in cell F2. (01 mark)

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d) Write down the function that should go in cell C8. (01 mark)

.....

e) A similar formula should go in cell G8. Describe how somebody could get this formula in G8 without typing it in. (01 mark)

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20. Study the following devices and answer the questions that follow.



a) Name the devices labelled: (02 marks)

C

E

b) Give one advantage of **A** over **B**. (01 mark)

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c) State one use of device **D**. (01 mark)

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END