

Name: .....INDEX NUMBER: .....

SIGNATURE: .....

*ICT*  
*Subsidiary Paper*  
*S850/1*  
*2 hours 30 Minutes*  
*July 2013*

**UGANDA ADVANCED CERTIFICATE OF EDUCATION  
INFORMATION AND COMMUNICATIONS TECHNOLOGY (ICT)**

*(Subsidiary Paper)*

***July 2013***

**Paper One (Theory)**

**S850/1**

**2 Hours 30 Minutes**

*Instructions:*

- a) This paper is made up of twenty structured questions.*
- b) Write your answers in the spaces provided.*
- c) All questions are compulsory.*
- d) All questions carry equal marks*

FOR OFFICIAL USE ONLY					
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SUB TOTAL		SUB TOTAL		TOTAL	

1. (a). Define the term computer literacy. (01 mark)

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- (b). State the difference between data and information. (02 marks)

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- (c). Mention two reasons for studying ICT in schools. (02 marks)

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2. (a). Define a computer laboratory. (01 mark)

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- (b). Mention two ways you can ensure safety of computers in a lab. (02 marks)

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- (c). State two uses of air conditioner facility in a computer lab. (02 marks)

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3. (a). Give the difference between a file and a folder. (01 mark)

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- (b). Mention two ways a file is kept secure in a computer. (02 marks)

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- (c). In which folder is this file saved?  
C:\Users\User\Desktop\TCN\seniorsixpaperonetheory.docx (02 marks)

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4. (a). Distinguish between a cold boot and a soft boot. (01 mark)

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- (b). State two reasons for restarting a computer. (02 marks)

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- (c). In the process of booting, write down a function for each of the following:

- (i). CMOS. (01 mark)

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- (ii). RAM. (01 mark)

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5. (a). Define the term network protocol. (01 mark)

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- (b). State two examples of physical network topologies that can be set in a lab. (02 marks)

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- (c). Write the following in full:

- (i). OSI (01 mark)

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(ii). ISDN (01 mark)

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6. (a). State two factors you may consider before setting up a computer network. (02 marks)

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(b). Mention one advantage of a peer - to - peer over a client – to - server relationship. (01 mark)

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(c). State the function of each of the following in the process of establishing a network:

(i). bridge. (01 mark)

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(ii). Firewall. (01 mark)

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7. (a). State two devices that can be used as both input and output. (02 marks)

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(b). Mention any two practical uses of the light emitting diode on a printer. (02 marks)

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(c). State the difference between a hardcopy and a softcopy. (01 mark)

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8. (a). Write CPU in full. (01 mark)

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(b). Mention one function of the following parts in a CPU:

(i). Registers. (01 mark)

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(ii). Control Unit (01 mark)

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(c). State the difference between an address bus and a data bus. (02 marks)

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9. (a). Mention two services provided by the internet. (02 marks)

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(b). State one factor that leads to a slow internet download speed. (01 mark)

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(c). Briefly, describe the following types of websites:

(i). Blog. (01 mark)

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(ii). Wiki. (01 mark)

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10. (a). State two functions of the a network administrator in an organization. (02 marks)

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- (b). Mention any two computer certification programs. (02 marks)

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- (c). Give one use of a computer programming language. (01 mark)

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- 11.(a). What is a desktop publishing? (01 mark)

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- (b). State two features of desktop publishing application programs. (02 marks)

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- (c). Give two examples of desktop publishing application programs. (02 marks)

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- 12.(a). Mention two causes of system failure. (02 marks)

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- (b). State the difference between software upgrade and software update. (01 mark)

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- (c). Give one way system failure can be controlled. (01 mark)

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13. Use the table below to answer the following questions:

Emp_Id	Student Name	Date of Birth	Sex
CiB-001	Kantogole David	16/01/1980	M
CiB-011	Lukwago Elvis	17/03/1987	M
CiB-020	Mukama Patrick	24/12/1990	M
CiB-006	Bbosa Hanifah	04/08/1983	F
CiB-100	Nkelewe John	09/09/1984	M
CiB-089	Mubangizi John	10/10/1971	M
CiB-057	Muziira George	29/02/1991	M

(a). Which field can allow a foreign key? (01 mark)

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(b). State the possible field size for the field containing sex. (01 mark)

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(c). Write down the criteria to return date of birth between 15/01/1980 and 10/09/1984. (02 marks)

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(d). Mention one data type that can accommodate the entry in Emp\_Id entry. (01 mark)

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14. Define the following computer terms:

(a). Footer. (01 mark)

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(b). Character map. (01 mark)

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(c). Hyperlink. (01 mark)

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(d). Computer virus. (01 mark)

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(e). Primary key. (01 mark)

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15.(a). What are systems software programs? (01 mark)

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(b). State the three sub classes of system software. (03 marks)

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(c). Distinguish between application software and system software. (01 mark)

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16. State one function of the each of the following in relation to data processing.

(a). Space bar. (01 mark)

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(b). Enter key. (01 mark)

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(c). Scroll bar. (01 mark)

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(d). Save. (01 mark)

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(e). Character map. (01 mark)

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17.(a). State two advantages of mail-merge as used in a word processor. (02 marks)

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(b). Mention two functions of a mouse. (02 marks)

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(c). Distinguish between clicking and dragging as used in relation to mouse operation. (01 mark)

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18. (a). Give the difference between a workbook and a worksheet. (01 mark)

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(b). State any two data types stored in a spreadsheet. (02 marks)

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- (c). Mention two advantages of using an electronic spreadsheet program over a manually generated spreadsheet. (02 marks)

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- 19.(a). Define the term 'digital divide'. (01 mark)

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- (b). State two I T is used at home to enhance learning. (02 marks)

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- (c). Mention two ways IT is of a disadvantage to learning. (02 marks)

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20. Use the following table to answer the questions below:

Item	Computer A	Computer B
OS	Windows XP	Ubuntu
Hard drive	500 GB	1 TB
CPU	900 Mhz - 2 Duo Core	2.4 Ghz -
Network	Cable – NIC	WiFi
System type	32 bit OS	64 it OS

- (a). Which computer type is good for screen multi-colour output? (01 mark)

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- (b). Which computer type is fast and why? (01 mark)

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- (c). Which computer type is good for UTP networking media? (01 mark)

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(d). Which computer type is not disturbed by viruses? (01 mark)

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(e). Which computer type has the smallest hard disk space? (01 mark)

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