

Name:.....

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850/1
S.6
Subsidiary Information &
Communication Technology
Paper 1
JULY/AUG 2016
2½ hours

**UGANDA ADVANCED CERTIFICATE OF EDUCATION
SUBSIDIARY ICT PAPER I
Internal Mock 2016**

INSTRUCTIONS TO CANDIDATES:

Attempt ALL questions in this paper

The maximum time allocated to this paper is 2 hours 30 Minutes

Write in dark blue or black pen in the spaces provided on the Question Paper. All 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 question

Examiners use only

For Examiners User Only																				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	TOTAL

1. (a) Define the term Computer system? (1 Mark)

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(b) With examples, state the four main components of a computer system (4 Marks)

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2. (a) What is ICT? (1 Marks)

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(b) Using illustrations, describe the steps followed to transform data into information. (4 Marks)

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3. (a) Mention two tools that can be used for care and maintenance of laboratory devices. Laboratory. for each device state the function of the tool named. (2 Marks)

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(b) As a laboratory technician of Mbogo schools mention any three precautionary measures you take to protect lab equipment. (3 Marks)

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4. The following is a file address on windows based computer. (5 Marks)

D:/Document and settings/User1/Desktop/Exams/Bot1.xls. Identify the following

(i) File Name

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(ii) File location
.....

(iii) User profile/User file
.....

(iv) Drive Name
.....

(v) System folder
.....

5. (a) Describe how you can format a device using windows operating system (2 Marks)

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(b) Define the following as used in file management. (3 Marks)

(i) Scanning.....
.....

(ii) Disk compression.....
.....

(iii) Backup
.....

6. (a) Differentiate between a Scanner and Printer. (1 Mark)

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(b) With examples, mention the categories of printers (4 Marks)

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7. Suggest one suitable input device for each of the following tasks. (5 Marks)

(i) To enter instructions in the CLI
.....

(ii) To move the pointer in a GUI

.....
(iii) Inputting text/graphics from hard copies into electronic format
.....

(iv) To read bar codes of products in supermarkets.
.....

(v) To feed human voice into the computer
.....

8. A family has purchased a computer system with the following specification

Processor spend 2 GHZ

RAM 2 GB

Hard disk drive 120 Gigabytes

CD Rom

DVD writer

Modem 56K

Monitor 17"

(a) The computer has been purchased for buying goods and services over the internet. Explain how each of these items of hardware would be used for this purpose. (5 marks)

(i) Hard disk drive
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.....

(ii) RAM
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.....

(iii) DVD writer
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.....

(iv) Modem
.....
.....

(v) Monitor
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9. (a) What do you understand by the following terms in relation to computer software. (2 Marks)

(i) Shareware software.....
.....

(ii) Customized package.....
.....

(b) State three examples of system software (3 Marks)

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10. (a) Computer software has two major types, name and defined them (2 Marks)

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(b) Briefly mention and explain three functions of an operating system (3 Marks)

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11. (a) With examples define the term programming language. (2 Marks)

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(b) An application, software and a program denotes to the same meaning. Define a Program (1 Mark)

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(c) Mention two commonly used operating systems (2 Marks)

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12. In order to make hotel bookings, a tourist will need to connect to the internet.

(i) What type of software is needed to view web pages? (1 Marks)

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.....

(ii) State two file types suitable for an on-line brochure containing information about the hotel rooms, their other services and future events? (2 Marks)

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(iii) When customers use a computer to access the internet, state one input device needed to view a webpage when making a booking. (1 Mark)

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(iv) State one output device needed to produce a paper copy of the booking. (1 Mark)

.....

13. Write the following in full. (5 Marks)

(i) FTP.....

(ii) HTTP.....

(iii) HTML.....

(iv) TCP/IP.....

14. (a) What is a website? (2 Marks)

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(b) As a student of ICT you are required to give any three function of a website to an organization. (3 Marks)

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15. (a) Define the following terms as applied to data communication. (3 Marks)

(i) Packet switching

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(ii) Circuit switching

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(iii) Data channel

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(b) Mention two advantages of full duplex mode of data transfer over simplex mode of data transfer. (2 Marks)

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16. (a) List three advantages of fiber optic cabling (3 Marks)

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(b) Outline two disadvantages of wireless communication (2 Marks)

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17. It is important that data stored in a computer system should be secure. One way in which data can be unsecure is by infection by viruses.
(a) Describe three other threats to data (3 Marks)

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(b) How can viruses' attacks be prevented? (2 Marks)

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18. (a) Define the term systems administrator (1 Mark)

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(b) State any four computer careers and their functions. (4 Marks)

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19. The schools' debate club keeps a file of members on a computer system. Part of the file is shown in the following diagram.

ADMIN CODE	SURNAME	INITIAL	SEX	PHONE NO	DATE OF BIRTH
MM002	Kasoma	K	M	0782564589	11/12/86
MM024	Namuli	NM	F	0771458275	04/01/88
MM067	Namusoke	NZ	F	0702584656	15/05/86
MM078	John	JP	M	0705289678	18/02/87
MM089	Namusisi	MN	F	0794582759	21/07/86
MM045	Apollo	A	M	0714568927	09/02/88
MM115	Kivumbi	KR	M	0754685972	03/09/87
MM156	Ataho	AA	M	0774859223	22/04/88
MM145	Kabanda	KK	M	0745558484	14/04/86
M122	Matama	MM	F	0711252511	09/01/88

(a) How many fields are in the above table? (2 Mark)

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(b) State the data type that should be used for the Admin code data (1 Mark)

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(c) Outline one reason why the data in the sex field has been coded. (1 Marks)

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(d) Mention one data type used in Microsoft access. (1 Marks)

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20

	A	B	C	D
1	Car	Distance (km)	Fuel used(litres)	Economy(km/litre)
2	car 1	48	4.0	12.0
3	car 2	160	9.0	17.8
4	car 3	70	4.5	15.6
5	car 4	200	20.0	10.0
6	car 5	150	33.0	4.5
7	car 6	300	15.0	20.0
8		Average economy		13.3
9		Best economy		20.0

(a) (i) What formula is in cell D2 to calculate the economy for car 1? (1 Mark)

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(ii) What formula is in cell D8 to calculate the average economy for all 6 cars? (1 Mark)

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(iii) What formula is in cell D9 to calculate the best (highest) economy? (1 Mark)

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(b) If cell B7 was changed to 200, which cells would be automatically updated? (2 Marks)

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END