

Name: _____ Index No. _____

School: _____ Signature _____

S850/1

Subsidiary Information and
Communication Technology

PAPER 1

July / August 2013

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



WAKISSHA JOINT MOCK EXAMINATIONS

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 20 equally weighted questions.
- Write in dark blue or black ink in the spaces provided on the question paper.
- No additional materials (answer sheets) are required.
- The maximum mark for the paper is 100% .

For examiner's use 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 Information and Communication Technology (1 mark)

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(b) Assuming, you have been appointed as the head of ICT department in your school. The school wishes to buy new computers to ease the work of teaching and learning ICT.

Explain **four** factors you would consider when buying computers. (4 marks)

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2. Explain **one** specialised application ICTs can play in each of the following areas (5 marks)

(a) Education

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(b) Health

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(c) Entertainment

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(d) Security

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(e) Industries

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3. Bridget is a lab assistant at Kibisi sec school. She was requested to present a list of items she would use in her computer lab. Among the items she listed included a blower, antiglare screens, computer covers, air conditioners and surge protector. Explain the importance of each of the following; (5marks)

i) Blower

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ii) Antiglare screens

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iii) Water proof covers

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iv) Gaseous fire extinguisher

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v) Surge protector

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4. (a) In reference to the following file path: C/user/desktop/Abu/letter.doc. identify the following; (2marks)

- i) File name.....
ii) File type.....
iii) Profile.....
iv) Folder.....
v) Location.....

5. Give the file extension of the following file types. (5marks)

File type	file extension
• Ms Word
• Batch file
• Executable file
• Text file
• Ms Excel

Turn Over

6. (a) Define peripheral devices

(2marks)

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(b) A student wishes to store data on optical storage medium.

i) List down **one** optical storage medium.

(1 mark)

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.....
.....

(1 mark)

iii) Give **one** disadvantage of optical storage you have mentioned in b (i) above

.....
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(1 mark)

7. (a) What is a hardware device?

(2 marks)

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(b) State one function of each of the following components of the computer central processing unit.

(3marks)

(i) The control unit (CU)

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.....

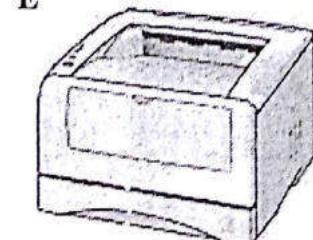
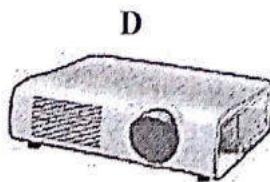
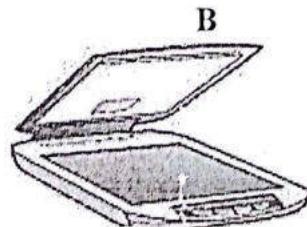
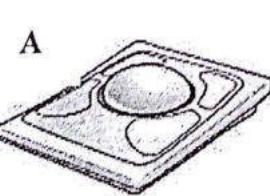
(ii) The arithmetic/logic unit (ALU),

.....
.....

(iii) The Registers

.....
.....

8. Name the devices A, B, C , D and E using the words from the list.



Data projector

Digital camera

Joystick

Laser printer

Microphone

Remote control

Scanner

Tracker ball

A
C
E

B
D

9. Complete each sentence seen below using one item from list;

Compilers	Interpreters	linkers
Basic	Cobol	Custom software
Freeware	Publication	Packaged software

- a) is a commercial software which is copyrighted and designed to meet the needs of many users. (1mark)
b) is software provided at no cost to users. (1mark)
c) is software developed at a user's request to perform specific function. (1 mark)
d) is software that translates the source program line by line while the program is running. (1mark)
e) is software that is used to teach junior programmers. (1 mark)

10. (a) What is operating system? (2marks)

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- (b) Explain any three functions of operating systems. (3marks)

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11. A student in school X was asked to format a flash disk in windows based operating system. The student instead formatted the hard disk by mistake.
(a) Explain the term formatting a disk (2 marks)

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- (b) State **three** situations when the computer user will be required to format a disk. (3 marks)

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12. Study the URL and answer the questions that follow:

<http://www.edl.org/countries/uganda>

(i) What does http stands for?

(1 Mark)

.....

.....

(ii) The domain name is

(1 Mark)

.....

.....

(iii) Which is the top-level domain (TLD) in this URL?

(1 Mark)

.....

.....

(iv) What does "countries" represent in this URL?

(1 Mark)

.....

.....

(v) What is the document name which is currently opened on this website?

(1 Mark)

.....

.....

13. Today internet is becoming almost part of man's life. State any **five** positive effects of internet to the society. (5 marks)

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14. a) Explain the term Domain Name system

(1 mark)

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b) An e-mail address is given as lubakyoya@gmail.com identify each part of

this address. (4marks)

(a) lubakyoya.....

(b)@.....

(c) gmail

(d) .com.....

15. (a) Define the concept of data communication.

(1mark)

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.....

(b) Explain the function of the each of the following in relation to data communication

a) Sending device (1 mark)

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.....

b) Communication device (1mark)

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.....

c) Communication channel (1mark)

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.....

d) Receiving device (1mark)

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6. Mobile telephones are used for accessing internet

(a) Give **three** advantages of using mobile telephones for internet access. (3 marks)

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(b) Give **two** disadvantages of using mobile telephones for internet access.

(2 marks)

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17. (a) Define the term firewall as used in computing? (2 marks)

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(b) Mention any **three** forms of unauthorised access. (3 marks)

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18. a) Briefly describe the concept of "green computing" (2 marks)

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State any **three** advantages of green computing (2 marks)

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.....

Turn Over

19. The following is a mark sheet of senior four Ngoma secondary school.

	A	B	C	D	E
1	NAMES	History	ICT	chemistry	art
2	Kabanda	45	67	76	89
3	Kainembabazi	34	45	56	48
4	Awori	67	65	76	78
5	Mwondha	98	56	45	59
6	Nyakato	45	90	67	67

(a) Write a formula to calculate the following; (3 marks)

- i) Total marks for Kabanda.....
- ii) Average score for Awori.....
- iii) The highest score for Nyakato.....

(b) Write a formula to count all the ICT students with marks greater than 60. (2 marks)

.....

20. Lady Aisha book library uses a database to store information about the different books they have. Part of database is shown below.

Book Title	Number of books borrowed	Nature of the book cover Hard or Soft
Introduction to biology	56	Yes
Dictionaries	52	No
Uganda constitution	38	No
Encyclopedia	35	Yes

a) (i) Which field in the table above stores Boolean data type? (1mark)

.....

(ii) Give a reason Why Boolean data type is used (1mark)

.....

.....

b) (i) Which field stores numeric data? (1mark)

.....

(ii) Give a reason Why Numeric data type is used. (1mark)

.....

.....

c) Suggest one other data type used in the database above. (1mark)

.....

END

Name _____ Index No. _____

School _____ Signature _____

SS50/1
Subsidiary Information and
Communication Technology
PAPER 1
July / August 2014
2½ hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

- *The paper is made up of 20 equally weighted questions.*
- *Answer all questions in this paper.*
- *All answers should be written in dark blue or black ink in the spaces provided on the question paper.*
- *No additional answer sheets should be inserted.*

For examiner's use only																				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total

1. (a) As information technology is developing, it has reached an extent that it is now applicable in all sectors including Education. Give three specialized ways ICT is applied in schools. (03marks)

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- (b) Give **two** disadvantages of using Information and Communication Technology in schools. (02marks)

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2. (a) Outline **three** causes of fire accidents in a computer lab. (03marks)

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- (b) State **two** ways how fire outbreak can be prevented in the computer lab. (01mark)

.....
.....

3. (a) Define the term computer peripheral? (2marks)

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- (b) Give **three** examples of computer peripheral devices. (03marks)

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.....
.....

4. Tick five devices from the list below which can be used to connect computers in a net work. (5marks)

	✓
Hub	
Printer	
Projector	
Switch	
Bridge	
Reapeter	
Rj 45 connector	
Monitor	

5. Below is a spread sheet of a shop keeper that was used to calculate his profits. (5marks)

	A	B	C	D	E	F	G
1	Producer	Food type	Number in stock	Cost price	Selling price	Selling price	Total profit
2	Loge kks	Potato flakes	123	\$ 2.30	\$ 2.90	\$ 0.60	\$ 73.80
3	Square branch	Chocolate	158	\$ 0.75	\$ 0.95	\$ 0.20	\$ 31.60
4	Roofs	Beef buggers	135	\$ 1.25	\$ 1.55	\$ 0.30	\$ 40.50
5	Kapats	Grary	89	\$ 3.20	\$ 3.95	\$ 0.75	\$ 66.75
6	Startle	Cream	119	\$ 1.50	\$ 1.85	\$ 0.35	\$ 41.65
7							
8		Total in stock	624		Overall profit		\$254.30

- a) Give the cell reference of the cell that contains 158

.....

- b) Give the cell reference of a cell that contain a label.

.....

- c) Write down the formular used in cell F5.

.....

- d) Write down the formular used in cell G2.

.....

- e) State spread sheet feature used in the cells where the word “overall profit” is

.....

6. Computers nowadays are connected to the internet to enhance communication.

List **five** requirements needed for connecting to the internet.

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7. a) Explain the following terms in relation to information processing. (02marks)

i) Batch processing.

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.....
.....

ii) Real time processing. (02marks)

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- b) Name **one** example where Batch processing can be used in the school environment. (01mark)

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8. a) Most computer files are made up of a file name and file extensions.

i) What is the importance of a file extension? (02marks)

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.....

ii) Write down the file extension for micro soft excel file. (01mark)

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- b) Mr. Nagamanaga deleted a file accidentally. Give **two** ways how he can recover this file. (02marks)

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9. a) Differentiate between a type writer and word processor. (02marks)

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- b) Outline **three** advantages of word processor over a type writer. (03marks)

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10. Explain the following terms in relation to the internet. (05marks)

i) Search Engine.

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ii) Website

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iii) Web browser.

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iv) Hyperlink.

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v) E-mail

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11. a) Today computers are widely used starting from a simple house hold to space technology. Give **two** specialized applications of computers in education.

(02marks)

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- b) Outline **three** health problems resulting from using computers for a long time.

(03marks)

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(02marks)

- 12.a) Define the term protocol.

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(03marks)

- b) List down **three** examples of communication protocols.

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- 13.a) Distinguish between synchronous and asynchronous modes of data transmission.

(02marks)

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- b) Describe **three** services offered by data communication tools.

(03marks)

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14. Write the following abbreviations in full.

(5marks)

- i) POP

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.....

- ii) BIOS

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.....

- iii) HTTP

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.....

- iv) UPS

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.....

- v) LSI

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15.a) Define the following in relation to computers, (02marks)

- i) Cold booting.

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- ii) Warm booting.

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b) Under what circumstances may a person perform warm booting? (03marks)

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16. Tick either True or False.(05marks)

	TRUE	FALSE
ROM is volatile memory		
A CD has bigger capacity than DVD		
A byte is a set of 8 bits		
HTML is a file type for internet.		
ADA is a high level language.		

17. State any **five** unique features of the modern computer. (5marks)

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18. Mr. K the head teacher of a certain school, purchased a laptop computer. He wants to use it for internet connectivity.

- a) Identify **one** additional item he would need to buy in order to do this.

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.....
.....

- b) Give **two** advantages and disadvantages of internet shopping. (02marks)
- i) Advantages
-
.....
.....
- ii) Disadvantages. (02marks)
-
.....
.....
19. a) The system Administrator of Kakuru college school was advised to change his system of collecting data manually to electronic system using data base management soft ware. Give **two** examples of data base management soft ware the school can us. (02marks)
-
.....
.....
- b) Distinguish between a field and record as used in data bases. (02marks)
-
.....
.....
- c) Give **one** importance of a primary key in the data base. (01mark)
-
.....
.....
20. The table below shows the different forms of application soft ware. Use Yes or No to full the blank spaces.
- | | Free of charge | Copy inflicted | Tailor made |
|-------------------------|----------------|----------------|-------------|
| Custom soft ware | No | Yes | |
| Free ware | | Yes | |
| Shore ware | | Yes | No |
| Public domain soft ware | Yes | Yes | No |
| Packaged soft ware | No | Yes | |

END

S850/3

Subsidiary Information and
Communication Technology

Practical paper

PAPER 3

July / August 2014

2 hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

(Practical)

Paper 3

2 hours

INSTRUCTIONS TO CANDIDATES:

- *The paper is made up of five (5) equally weighted questions.*
- **Attempt any three questions in this paper.**
- *Any additional question(s) answered will not be marked.*
- **Each candidate is provided with a new blank compact disk, Rewritable (CD-RW) or a flash disk.**
- **Each candidate must produce a hard copy for each of the work to accompany the compact disc or flash disk.**
- **Create a folder in your name and index number on the desktop where you should keep saving your work. After ensuring that all your work is in the folder transfer it to the CD provided.**
- **There is no added time for printing and writing CD or saving and printing after the stipulated time.**
- **Keep on saving your work as no extra time will be provided in cases of power failure.**

1. WORDPROCESSING

(6marks)

Using the suitable word processing software, type this document as it is.

HUMAN BEINGS

Most infants are guided through life by a parent or guardian and taught how to talk, walk, eat and generally behave. The socialization process begins as soon as we are born when we begin to imitate people around us, copy the shapes and noises in our environment. Many other people and circumstance affect our appearance, attitude and behaviour, such as work, life style, ethnicity, family, environment, peer group (friends), gender, media etc.

Human beings are very different throughout the world and opinions of what constitutes a natural or nurtured human being differ enormously. Without socialization an individual would bear little resemblance to any human being defined as "normal" by the standards of his or her society.

There have been some instances where a person has been deprived of the assistance of a parent or any other social human presence. These beings are often referred to as feral people meaning "wild".

An example of feral people was the Wolf infants of Midnapore who were reportedly found in a wolf den in a Bengal forest in 1920. The infants, age two and eight, walked on all fours, preferred a diet of raw meat, howled like wolves and lacked any form of speech.

- (Adapted from: Mackenzie and Bryden (2004:50), introducing word 2000 for Windows)

Further required

- Copy and paste the document to page 2. (2marks)
- Using the copy on page 2, center, bold and underline the heading and make it font size 24. (2marks)
- Center align the second paragraph and change the font face to Book man old style. (2marks)
- Italicize the source of the document and make it font size 8. (2marks)
- Replace the word "the" in the whole document with the paper code. (1mark)
- Insert your name as footer and your school as the header. (1mark)
- Insert a clip art of your choice. Make it appear behind text and in a wash out form. (2marks)
- Save your work as your name. Doc e.g Abdu.DOC and print all your work. (2marks)

SPREAD SHEET

2. a) You are provided with the following data. Enter it using ant spread sheet program. (4marks)

Student Name	Test 1	Test 2	Assignment	Course work marks (out of 40%)	Exam marks	Final marks (100%)
Chemutai	76	77	65		65	
Apio	78	60	76		70	
Kato	52	70	80		76	
Nandudu	45	80	69		50	
Ogaram	70	57	70		70	
Amoti	80	70	71		75	
Odur	75	65	80		80	

Note:

- All the marks provided are out of 100%
- Course work marks are calculated by getting the average of the two best done of Test1, Test2 and the Assignment mark and converting it to 40%
- Final marks are as a result of the course work marks (out of 40%) and the exam marks (out of 60%)

Required

- a) Calculate the coursework marks. (4marks)
- b) Compute the final marks from the exam and course work marks. (4marks)
- c) Use a column graph to represent the above data. (2marks)
- d) Calculate the average of Test1 and Test2. (2marks)
- e) Compute the minimum mark for Test1 and Test 2.
“Insert 2 rows for average and minimum marks” (2marks)
- f) Save your work as your name. WAW e.g. John.WAW. (1mark)
- g) Print your work. (1mark)

ELECTRONIC PRESENTATION.

3. Your school has been invited for a computer seminar. You are to prepare a presentation about computer Net works.

You are required to

- a) Create four slides
 - Slide 1 – should include the title, your name and your school name. (3marks)
 - Slide 2 – should include definition of networking and three types of networking. (3marks)
 - Slide 3 – should include 3 advantages and 3 disadvantages of networking. (4marks)
 - Slide 4 – should have a conclusion. (1mark)
- b) Include your name at the top right hand corner and slide numbers at the bottom of the left corner. (2marks)
- c) Use minimum graphical effects to make the presentation entertaining. (2marks)
- d) Run the slides automatically after 4 seconds.
- e) Insert a uniform back ground colour. (1mark)
- f) Use a relevant clip art. (2marks)
- g) Save your work as “Networks. Your name e.g. Networks.Musa and print all your work. (2marks)

DATA BASE

4. Carefully study the information given below

Student ID	Sur name	First name	Sex	Club	Donation
S850	Kamu	Edwin	M	Interact	5000
S851	Akena	Juliana	F	Writers	6300
S852	Kakaire	Ronald	M	Debating	5500
S853	Babirye	Lonah	F	Interact	2200
S854	Kafuko	David	M	Writers	3600
S855	Kavuma	John	M	Writers	9900
S856	Kato	Musa	M	Debating	4700

Required

- a) Using any data base application program, design a suitable data base called SUBICT database. (2marks)
- b) Create a table called SUBICT TABLE and enter the data above. (6marks)
- c) Create a query to filter male students from writers club. Name MALE. (2marks)
- d) Create a query displaying all the fields in the above table to filter out only students with donations 5000 and below and name "5000 LESS" (2marks)
- e) Create a form using "5000 LESS" query and name it "5000 LESS FORM". (3marks)
- f) Create a report with all fields and in it include your name as footer and name it SUBICT REPORT.
- g) Print all your work. (2marks)

ELECTRONIC PUBLICATION

The business manager of ICT World Company has contracted you to design for him some business cards. He provides you with the following details;

Name: your name

Contact: P.O Box 54, Wakiso.

Email: your email

Mob: +256773916648

Required

- a) Using any publication program of your choice, create a desk top publication that will contain multiple business cards on paper size A4. (4marks)
- b) Each business card should be of size 3.5" width and 2"- height. (2marks)
- c) Set the left and right margins to 0.5". (2marks)
- d) The top and bottom margins to 0.7. (2marks)
- e) Apply appropriate vertical and horizontal gap settings suitable to accommodate 6(six) cards on one page. (1mark)
- f) Use any picture art to act as the logo of the company and place it at the left hand side of the card. (2marks)
- g) Insert a simple border to the business cards. (2marks)
- h) Apply suitable back ground, font styles, and font colour to your business cards. (3marks)
- i) Save your work as BUSINESS CARD. Your name. e.g BUSINESS CARD.AGNES. (1mark)
- j) Print your work. (1mark)

END

Name: _____ Index No. _____
School: _____ Signature _____

S850/1
Subsidiary Information and
Communication Technology
PAPER 1
July / August 2015
2 $\frac{1}{2}$ hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

- *The paper is made up of twenty equally weighted questions.*
- *Answer all questions in this paper.*
- *All answers should be written in dark blue or black ink in the spaces provided on the question paper.*
- *No additional answer sheets should be inserted.*

For examiner's use only																				Total

Answer all questions in this paper.

1. Mention **one** positive impact of ICT in each of the mentioned sectors below.

(i) Education

(01 mark)

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.....
.....

(ii) Social/Ethical

(01 mark)

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.....
.....

(iii) Economy

(01 mark)

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(iv) Politics and Governance

(01 mark)

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.....
.....

(v) Security

(01 mark)

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(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 E-learning in schools.

(02 marks)

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3. (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** things you would consider before setting up a computer lab. (02 marks)

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.....

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

.....
.....

- (b) State the file extension for each of the following file types: (02 marks)

FILE TYPE	FILE EXTENSION
Video clip
Audio clip
Text
Executable program

- (c) In which folder is the file named in the file path below saved?
C:/ users/User/Desktop/TCN/seniorsixpaperonetheory.docx (02 marks)

.....

5. (a) Distinguish between a **cold boot** and a **warm boot**. (02 marks)

.....
.....

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

.....
.....

- (c) Write down the **one** function of the components below.

- (i) CMOS. (01 mark)

.....
.....

(01 mark)

(ii) RAM.

.....
.....
.....
.....

6. (a) State **two** factors you would 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 **one** function of each of the following Networking devices. (01 mark)

(i) Router.

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(ii) Firewall. (01 mark)

7. (a) Distinguish between **input** and **output** devices. (01 mark)

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.....

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

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.....

(c) State the difference between a **hardcopy** and a **softcopy**. (02 marks)

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8. (a) Write CPU in full. (1 marks)

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.....
.....

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

(i) Registers. (01 mark)

- (01 mark)
- (ii) Control Unit.
- (02 marks)
- (c) Mention **two** machine cycle processes.
- (02 marks)
9. (a) Mention any **two** services provided by the internet.
- (01 mark)
- (b) State **one** factor that can lead to a slow internet download speed.
- (01 mark)
- (c) Define the following types of websites:
- (01 mark)
- (i) Blog.
- (01marks)
- (ii) Wiki.
- (01 marks)
10. (a) What is the difference between **WAN** and **WLAN**
- (01 marks)
- (b) Explain the meaning of the following networking concepts.
- (02 marks)
- (i) Bandwidth.
- (02 marks)
- (ii) Bluetooth.
- (01 mark)
11. (a) Define the concept of cybercrime.

- (b) Explain **four** threats to data/information in a computer lab. (04 marks)

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12. Describe the steps of **information processing cycle**. (05 marks)

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13. (a) What is the difference between **word processing** and **spreadsheet** applications software? (02marks)

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- (b) Apart from Microsoft Word, list **one** other example of word processing application software. (01 mark)

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- (d) Name **one** unique feature typical of each of the following office application programs.
Word Processor

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.....
.....

Spreadsheet

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.....
.....

14. (a) Define the term **Green Computing**. (02 marks)

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- (b) Give and explain **three** green computing practices. (03 marks)

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15. (a) What is an **Icon** in a desktop environment? (01 mark)

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.....

- (b) State the **four** common icons on a normal desktop of a computer. (04 marks)

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16. (a) What is **meant** by the term ICT and give two examples of ICT tools you have ever used. (02 marks)

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- (b) Briefly explain **three components** found inside a computer system unit. (03 marks)

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17. (a) Define the term **Utility programs**. (02 marks)

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- (b) Explain **one** function of each of the following system utilities: (03 marks)
(i) ~ Disk defragmenters.

.....
.....
.....

- (ii) Antivirus utility.
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.....
.....

Turn Over

7

(iii) Data compression utilities.

18. (a) Define the term email? (01 mark)

(b) Identify the parts of this email address: ugandaeast@gmail.com (04 marks)

i) ugandaeast.....

ii) @.....

iii) gmail.....

iv) com.....

19. As an ICT student, you have been approached by management with a view of buying computers that are to be used in the teaching and learning process. Assuming you been selected to spearhead the team to purchase the computers.

Explain five factors you would consider while buying computers. (05 marks)

20. Indicate TRUE or FALSE against each statement in the table below. (05marks)

		TRUE or FALSE
(a)	Windows 7 is a graphical User Interface Operating System.	
(b)	Electronic spreadsheets supports mathematical and statistical computations.	
(c)	Word processors have formula bars.	
(d)	Disk operating system is command driven operating system.	
(e)	Back up is the combination of two or more files to produce one output file.	

END

Name: _____

Index No. _____

School: _____

Signature _____

S850/1

**Subsidiary Information and
Communication Technology**

PAPER 1

July/August 2018

2½ hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

- *The paper is made up of 20 equally weighted questions.*
- *Answer all questions in this paper.*
- *All answers should be written in dark blue or black ink in the spaces provided on the question paper.*
- *No additional answer sheets should be inserted.*

For examiner's use only																				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total

- a) Distinguish between Optical Character Recognition Reader (OCR) and Optical Mark Recognition Reader (OMR). (2 marks)
-
-

- b) Explain **three** advantages of Optical Mark Recognition Reader (OMR) over Optical Character Recognition Reader (OCR) (3 marks)
-
-

- a) Define the term web portal. (1 mark)
-

- b) Suggest **two** applications of ICT in each of the following areas.
i) Transport. (2 marks)
-
-

- ii) Business. (2 marks)
-
-

Ali wants to back up his data.

- a) Give **two** reasons why making backups is necessary. (2 marks)
-

- b) Ali thinks that making backups will prevent his data from getting virus. Give **one** reason to support his answer. (1 mark)
-

- c) Suggest **two** ways of controlling viruses. (2 marks)
-

- a) Differentiate between copying and moving in relation to file management. (2 marks)
-

- b) Give **two** properties of a folder. (2 marks)
-

- c) Suggest the keyboard buttons one presses to close any file open without clicking on the close button. (1 marks)
-

5. a) Define the term burglar proofing. (1 mark)

b) Give two reasons for burglar-proofing. (2 marks)

c) Identify two computer hardware threats. (2 marks)

6. a) Mention two causes of system failure. (2 marks)

b) State the difference between software upgrade and software update. (2 marks)

c) Give one way system failure can be controlled. (1 mark)

7. a) Differentiate between traditional and electronic spreadsheets. (1 mark)

b) Mention two qualities of a good graph. (2 marks)

c) Mention two disadvantages of electronic spreadsheets. (2 marks)

8. a) Differentiate between standard and In-house packages. (2 marks)

b) Suggest the functions of the following utility programs:

i) Diagnostic utility. (1 mark)

ii) Screen saver. (1 mark)

c) Give one example of customized application software. (1 mark)

9. a) Define a firewall. (1 mark)

b) Give two advantages of using an internet at home. (2 marks)

c) You are given the following URL; "www.wakissa.ug". Identify;-

i) .ug _____ (1 mark)

ii) .wakissa _____ (1 mark)

10. Many companies use video conferencing instead of face to face conferencing.

a) Mention three advantages of video conferencing. (3 marks)

b) Explain two disadvantages of video conferencing. (2 marks)

11. a) Differentiate between transition loop and slide sorter facility. (2 marks)

b) Explain three qualities of a good presentation. (3 marks)

2. a) Write short notes on each of the following in relation to data communication.

i) Attenuation. (1 mark)

ii) Multiplexing. (1 mark)

iii) Band width. (1 mark)

iv) Half duplex. (1 mark)

v) Repeater. (1 mark)

13. The following spreadsheet shows the 2 night Bargain Break holiday bookings during the three month period.

	A	B	C	D	E	F
1	2 NIGHT BARGAIN BREAK HOLIDAY BOOKINGS					
2						
3	Price at					
4		BOOKINGS				
5	Hotel	Nov	Dec	Jan	Total Booking	Income
6						
7	Beach resort	3	5	1	9	900
8	Oriented hotel	7	8	5	20	2000
9	Palasa Hotel	8	9	8	25	2500
10	Orchard Inn	6	6	3	15	1500
11	Grande Hotel	2	5	3	10	1000
12						
13	Total bookings	26	33	20	79	7900

- a) Write down a formula that could be in cell F7 to calculate the income for the hotel named Beach Resort. (1 mark)
-

- b) Describe how the formula in B13 can be copied into the cells C13, D13, and E13. (2 marks)
-
-

- c) State the cell addresses that are needed to create a bar chart showing the total bookings for each of the hotels. (2 marks)
-
-

14. Suggest **five** services that can be provided by an ATM machine. (5 marks)
-
-
-
-
-

15. Private data or information is a collection and use of personal information. This information should not be accessed or disclosed to any other person unless permitted by the owner.

- a) Explain **three** concerns related to collection and use of private and confidential data. (3 marks)
-
-
-

Turn Over

- b) Describe the role of disaster recovery plan as a data protection measure.
(2 marks)

16. a) State the **two** factors to consider before buying a software program. (2 marks)

- b) Mention **three** ways computer users can obtain software. (3 marks)

17. Write the following computer acronyms in full.

i) MODEM (1 mark)

ii) GPRS (1 mark)

iii) VGA (1 mark)

iv) PCI (1 mark)

v) CMOS (1 mark)

18. a) Why is the binary number system used for computer? (2 marks)

- b) Convert 10101010 to its decimal equivalent. (3 marks)

19. a) Define the term digital forensics. (1 mark)

b) Mention **two** causes of signal attenuation. (2 marks)

c) Mention **two** Biometric devices. (2 marks)

20. Why do you think there are still few people using computer in Uganda today. (5 marks)

END

S850/2

Subsidiary Information and
Communication Technology

Practical paper

PAPER 2

July/August 2018

2 hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

(Practical)

Paper 2

2 hours

INSTRUCTIONS TO CANDIDATES:

- *The paper is made up of five equally weighted questions.*
- *Attempt any three questions in this paper.*
- *Any additional question(s) answered will not be marked.*
- *Each candidate is provided with a new blank compact disk, Rewritable (CD-RW) AND NOT FLASH DISK.*
- *Each candidate must produce a hard copy for each of the work to accompany the compact disc.*
- *Create a folder in your name and index number on the desktop where you should keep saving your work. After ensuring that all your work is in the folder transfer it to the CD provided.*
- *There is no added time for printing and writing CD or saving and printing after the stipulated time.*
- *Keep on saving your work as no extra time will be provided in cases of power failure.*

- 1. WORD PROCESSING**
- i) Using any word processing program of your choice, load a file called '*Marriage*' from the support file and save it as "your name-marriage" (02 marks)
 - ii) Copy and paste the document onto pages 2 and 3. (03 marks)
 - iii) Using a document on page 3, center align the title, face times new roman and size 23. (03 marks)
 - iv) Justify your document. (01 mark)
 - v) Format the text into two columns. (02 marks)
 - vi) Change the font of the text to face Tahoma and size 14 pts. (02 marks)
 - vii) Drop cap to the first letter of each paragraph to 2 lines. (02 marks)
 - viii) Insert a diagonal water mark of your name on page 3 only. (01 mark)
 - ix) Insert centered page numbers on your document. (01 marks)
 - x) Insert any two color backgrounds in the document. (01 mark)
 - xi) Save and print all your work. (02 marks)
- 2. PRESENTATION**
- The Electoral Commission is planning a sensitization of the mass upon the forth coming Local Council One general elections. The Commission is to hold a competition of sensitizers soon this year and you intend to participate.
- Prepare slides for the following details provided.
- Slide one: Introduction to the general election. Use a suitable title (02 marks)
 - Slide two: Persons eligible to vote. (02 marks)
 - Slide three: How to validate election registers. (02 marks)
 - Slide four: How to avoid vote rigging. (02 marks)
 - Slide five: Organization structure of electoral commission, use shapes (02 marks)
 - Slide six: Use the file "Local Council" to plot a chart showing the previous performance of candidates in different centers, use appropriate title for the chart. (02 marks)
- Additional Instructions:**
- a) Design a presentation that runs automatically after 3 seconds. (01 mark)
 - b) Use master slide to insert textural background for the presentation and your first name as footer. (02 marks)
 - c) Apply relevant transitions and animations. (02 marks)
 - d) Apply the navigation buttons on the slides. (01 mark)
 - f) Save your presentation as "Electoral – Your name" and print. (02 marks)
- 3. SPREADSHEET**
- a) Load a file called *Draft.xls* and save it as "RESULTS". (01 mark)
 - b) Using the appropriate formulae or function, compute the following;
 - i) Total score for each student. (02 marks)
 - ii) Average score for each student. (02 marks)
 - iii) Rank for each student using their total mark. (02 marks)
 - iv) Maximum value for each student. (01 mark)
 - v) Minimum value for each student. (01 mark)
 - c) Orient the titles to 45° and bolded. (02 marks)
 - d) Insert all borders on your text. (02 marks)
 - e) Change your worksheet to landscape orientation. (01 mark)
 - f) Using the HLook up function, accumulate the grade for the each subject using the information given below. (04 marks)

Mark	Grade
0-34	F9
35-44	P8
45-49	P7
50-59	C6
60-64	C5
65-69	C4
70-74	C3
75-79	D2
80-100	D1

- g) Print your work. (01mark)

4. DATABASE

QUARK is an organization that owns, runs a saving scheme for its members. You have been asked to use a database management system (DBMS) to help the scheme members maintain records of the association.

First Name	Last Name	Membership Number	Date of birth	Membership Fee	Fully paid
Kintu	Mark	4321	12/11/1990	200,000	Y
Akullo	Warren	5855	10/1/2015	50,000	N
Akongo	Joshua	514	08/08/2003	12,000	N
Kifampa	Bob	123	12/1/1999	10,000	N
Kaleb	Peter	411	10/03/2014	70,000	N
Ondigo	Sophie	868	12/12/2010	100,000	Y
Wakiaga	Precious	654	14/1/2013	140,000	Y
Aketch	Lucy	744	11/03/1992	60,000	N

- a) Create a database file called "QUARK-your name" that has the Table called "MEMBERS" with the fields of data for each member. (05 marks)
- b) Assign an appropriate primary key and data types for your database. (03 marks)
- c) Use a query to compute.
- (i) Age of members of the association, save query as Age. (02 marks)
 - (ii) Create another query that would be used to display those whose first name starts with letter A and O ,name it "Letter ". (03 marks)
 - (iii) For members whose membership fee is above 60,000, save it as Above. (02 marks)
- d) Generate a report for age query and current date and time, save report as Age report. (02 marks)
- e) Create a form to generate all the fields of the database, save the form as Mother Form. (02 marks)
- f) Print your report. (01 mark)

Turn Over

5. DESKTOP PUBLISHING

Using any Desktop publishing application program, load the file “Certificate” and save it as “Your name-CERT”. (01 mark)

- a) Add clips “scanner” and “web cam” at the top left and right corners of the Certificate respectively. Use any name to act as the institute’s name. (02 marks)
- b) Assume you have completed your course in some computer applications, as a computer literate, modify the certificate to be awarded even to other students for completing the applications successfully
Load the file “Courses” to see the computer application Courses to be included in the certificate. (03 marks)
- c) Use different font sizes, colors and styles. (02 marks)
- d) Include the following in the certificate.
 - Your name as the owner of certificate.
 - Signatories for Head of Institute and Head of Department. (02 marks)
- e) Use any textural background for the certificate. (01 mark)
- f) Include a header of your name and a footer of your subject combination. (01 mark)
- g) Make a duplicate of the certificate and rename it “New CERT” (02 marks)
- h) Design a logo of letters of the institute’s name and insert it below the institute’s name, use word art. (03 marks)
- i) Add a suitable boarder for the certificate. (02 marks)
- j) Print your work. (01 mark)

END

S850/3

Subsidiary Information and
Communication Technology

Practical paper

PAPER 3

July/August 2018

2 hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

(Practical)

Paper 3

2 hours

INSTRUCTIONS TO CANDIDATES:

- *The paper is made up of five equally weighted questions.*
- **Attempt any three** questions in this paper.
- Any additional question(s) answered will not be marked.
- **Each candidate is provided with a new blank compact disk; Rewritable (CD-RW) AND NOT FLASH DISK.**
- **Each candidate must produce a hard copy for each of the work to accompany the compact disc.**
- *Create a folder in your name and index number on the desktop where you should keep saving your work. After ensuring that all your work is in the folder transfer it to the CD provided.*
- *There is no added time for printing and writing CD or saving and printing after the stipulated time.*
- *Keep on saving your work as no extra time will be provided in cases of power failure.*

1. WORD PROCESSING

1. (a) Using a suitable word processing program, load the file **RIO16LYM.rtf** (01 mark)
- (b) Change the page size to A4, orientation to portrait and set all margins to **narrow**. (03 marks)
- (c) Copy and paste this document to the next page. (01 mark)
- (d) Format your copy as follows:
 - (i) Apply colour green, yellow, blue and red to the title. (01 mark)
 - (ii) Set the line spacing of the last paragraph to 1.15 points. (01 mark)
 - (iii) Set the last paragraph into two columns with a column spacing of 1cm. (01 mark)
 - (iv) Insert two images **Bolt** and **Olympic logo**, resize it to fit. (02 marks)
- (e) Using the copy on page 2, change the heading to font size 20 and underline it with double line style. (02 marks)
- (f) Change the numbered text in paragraph four to be numbered using Roman Numerals. (02 marks)
- (g) Move the paragraph which starts with the **Analysis** to the end of the document and make the background yellow. (02 marks)
- (h) Insert your name as a header and page number as a footer. (01 mark)
- (i) Insert a print watermark of your name. (01 mark)
- (j) Save your work as **RIO2018 OLYMPICS**. (01 mark)
- (k) Print your work. (01 mark)

2. SPREAD SHEET

The following students sat for their term one examinations in Mathematics (mat), Computer studies (comp), and Commerce (com) and obtained the following marks:

Using any spreadsheet application of your choice. Enter the data below and answer the questions that follow;

Jones got 40 in mat, 20 in comp and 50 in comm. Martha got 90 in mat, 60 in comp and 30 in comm. Torres got 70 in mat, 65 in comp, and 90 in comm. Sanders got 55 in mat, 40 in comp and 80 in comm. Perez got 50 in mat, 20 in comp and 35 in comm. Alvaro got 50 in mat, 60 in comp and 50 in comm. (4 marks)

Additional information

- i) Rename Sheet one as “**MARKS**” (01 mark)
- ii) Use a formula or function to compute the total and Average for each student. (02 marks)
- iii) Sort the column for the names in descending order. (01 mark)

- iv) Compute the maximum and minimum mark for each subject. (02 marks)
- v) Put the titles for columns in orientation 50°. (01 mark)
- vi) Draw a bar/column graph on sheet two for the students' marks in the three subjects. Give your graph a suitable title (03 marks)
- vii) Rename sheet two as "CHART" (01 mark)
- viii) Use IF function to insert a comment for students with the following conditions
Students whose Average is below 65, Work Harder.
Students whose Average is above 65, Excellent. (03 marks)
- ix) Add a custom footer of your name, Combination and best Subject (01 mark)
- x) Print your work. (01 mark)

3. PRESENTATION

The Ministry of ICT-Department of cybercrime, approached you to design a presentation about "**HOW ENCRYPTION WORKS**". As an ICT candidate, you will make a presentation about security violation and the control measures to data and information. Make a five slide presentation to enhance your show. (01 mark)

- (a) Slide I – A title slide with "How Encryption Works" presented by "Your name and personal number" as subtitle for the slide. (02 marks)
- (b) Use the file **JXENCRYPT16Y.rtf** and insert the text for rest of the slides.
- (c)
 - (i) Slide II - The introduction (01 mark)
 - (ii) Slide III – How Encryption works (02 marks)
 - (iii) Slide VI – The Future of Encryption (02 marks)
 - (iv) Slide V – Conclusions (02 marks)
- (d) Use appropriate images from support files, word art graphics and colour.
- (e) Create an automatic looping slide show. (02 marks)
- (f) Apply minimal animations in your presentation. (01 mark)
- (g) Vary the background of all your slides. (01 mark)
- (h) Number all your slides. (01 mark)
- (i) Use master to insert your name and personal number as a footer and header respectively. (01 mark)
- (j) Print your slide as handout. (01 mark)

4. DATABASE

- a) Load a file called "Payments". Use the information given to answer the questions. (03 marks)
- b) Assign appropriate primary key field making "Shs" symbol visible in payment field. (01 mark)
- c) Create a form to only display ID No, Last name and Wage. Name it 'Mini Form' (03 marks)
- d) Create a query to sort out all employees who earn above 300,000 and are females. Name it "Females only" (03 marks)
- e) Create another query that filters employs workers whose Surname begins with letter K and are from the UCC. Name it 'UCC Family'. (03 marks)
- f) Create a form based on Payments table. Name it General form. (02 marks)
- g) Create a report based on data and name it "Summarized data". (02 marks)
- h) Insert header of your name and footer of your personal number on the report. (02 marks)
- i) Save and print all your work. (01 mark)

5. DESKTOP PUBLISHING

Using desktop publication software of your choice, open the file ADVERT- GOLD.

(01 mark)

- (a) Design the advert using personal creativity and design skills, appropriately layout the text; Name of school, mission, facilities, departments, location and contacts. (05 marks)
- (b) Using text boxes; (03 marks)
 - Use word art for the title.
 - Apply a Drop Cap appropriate to your text.
 - Vary fonts, sizes and colours.
- (c) Insert at least 2 relevant images school.png and building.jpg (02 marks)
- (d) Apply a suitable background texture for heading. (01 mark)
- (e) Use an appropriate image of your choice to act as the logo.
 - Use caption strive for progress.(02 marks)
- (f) Select all the content on the card and group them into one object. (02 marks)
- (g) Apply an appropriate background color to your advert. (01 mark)
- (h) Insert a footer of your name and personal number. (01 mark)
- (i) Save your work as **school advert**. (01 mark)
- (j) Print your work.