

840/2
COMPUTER STUDIES
(PRACTICAL)
Paper 2
July 2019
2 ½ hours

Uganda Certificate of Education
JOINT MOCK EXAMS 2019
COMPUTER STUDIES
(PRACTICAL)
Paper 2
2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

- *This paper consists of **two** Sections; **A** and **B**.*
- *Section **A** contains **one** compulsory question.*
- *Section **B** contains **three** questions. Answer any **two** questions from this section.*
- *Any additional question(s) answered will **not** be marked.*
- *Each candidate is provided with a **new blank Compact Disk (CD)**.*
- *Candidates should continuously save their work.*
- *Each candidate **must** produce a hard copy for each of their work to accompany the Compact Disk (CD).*

SECTION A (40 MARKS)

This section is *compulsory*.

- 1.(a) (i) Using an appropriate word processing software, type the passage below as it is. Save it as your name and personal number. (5marks)

Since the invention of computers or machines, their capability to perform various tasks went on growing exponentially. Humans have developed the power of computer systems in terms of their diverse working domains, their increasing speed, and reducing size with respect to time.

A branch of Computer Science named Artificial Intelligence pursues creating the computers or machines as intelligent as human beings. According to the father of Artificial Intelligence, John McCarthy, it is "The science and engineering of making intelligent machines, especially intelligent computer programs".

Artificial Intelligence is a way of making a computer, a computer-controlled robot, or software think intelligently, in the similar manner the intelligent humans think. AI is accomplished by studying how human brain thinks, and how humans learn, decide, and work while trying to solve a problem, and then using the outcomes of this study as a basis of developing intelligent software and systems.

- (ii) Justify the whole passage. (1mark)
- (iii) Copy the passage and paste it on another page. (1mark)
- (iv) Draw a page border around the page. (2marks)
- (v) Insert a diagonal water mark of your name. (2marks)
- (vi) Insert a page number in the middle of the bottom. (2marks)
- (vii) Apply a drop cap to the first paragraph. (2marks)
- (viii) Divide the page into three columns. (2marks)
- (ix) Insert the following text as a footnote about the word "John McCarthy". (2marks)

John McCarthy (1927-2011) was a legendary computer scientist at Stanford University who founded the field of Artificial Intelligence.

- (x) Save and print your work. (1mark)

(b) The following table shows the result of a census conducted to determine the population in East Africa.

COUNTRY	CENSUS 2015	CENSUS 2016	GROWTH
Uganda	40,144,870	41,487,965	
Kenya	47,236,259	48,461,567	
Tanzania	53,879,957	55,572,201	
Rwanda	11,629,553	11,915,508	
Burundi	10,199,270	10,524,117	
South Sudan	11,882,136	12,230,730	
TOTAL			

- (i) Enter the above information into a spreadsheet application of your choice and save it as your name and personal number. (4marks)
- (ii) Rename sheet1 as CENSUS. (1mark)
- (iii) Calculate GROWTH which is CENSUS 2016 minus CENSUS 2015 using suitable formulae. (2marks)
- (iv) Calculate TOTAL using suitable functions. (2marks)
- (v) Insert a new column whose title is GROWTH RATE and calculate each value which is GROWTH divided by CENSUS 2015 using suitable formulae. (3marks)
- (vi) Format the values in GROWTH RATE column as Percentage. (2marks)
- (vii) Describe a column chart representing only REGION and GROWTH RATE. (3marks)
- (viii) Copy the chart and paste it on sheet2. (1mark)
- (ix) Insert a header of your name and personal number. (1mark)
- (x) Save and print your work. (1mark)

SECTION B (60 MARKS)

Answer any *two* questions from this section.

2. Kabowa secondary school is one of the schools in Uganda with both day and boarding.

(a) Create a database and save it as your name and personal number. (3marks)

(b) Create a table in design view with appropriate field data types and enter the following data. Save it as KABOWA STUDENT TABLE. (6marks)

ID	NAME	CONTACT	TYPE	FEES	AMOUNT PAID
1	Katwe Jacob	0704123456	BOARDING	500,000UGX	350,000
2	Kigooli Sam	0772001122	BOARDING	500,000UGX	287,000
3	Nalanga Agnes	0789876543	DAY	230,000UGX	230,000
4	Waiswa Peter	0751357913	BOARDING	500,000UGX	230,000
5	Opiko Martin	0702468024	BOARDING	500,000UGX	500,000
6	Kubwene Julius	0774998877	DAY	230,000UGX	140,000
7	Taliba Susan	0731593570	DAY	230,000UGX	170,000

(c) Create a form that can be used to enter data into the table. Save it as DATA ENTRY FORM. (3marks)

(d) Insert a header of your name on the form. (1mark)

(e) Create a query that selects ID, NAME, CONTACT and TYPE of the students who are boarding students. Save it as BOARDING QUERY. (4marks)

(f) Create a query with a new field called BALANCE which is FEES minus AMOUNT PAID. With the query select students 'NAME, TYPE and BALANCE where BALANCE is larger than zero. Save it as BALANCE QUERY. (6marks)

(g) Create a report from the query BALANCE QUERY. Save it as BALANCE REPORT. (3marks)

(h) Introduce the total amount of BALANCE on the report. (3marks)

(i) Save and print all your works. (1mark)

3. Uganda Traffic Police is going to hold a campaign to promote traffic safety. In the campaign, you are required to make a presentation for drivers to warn them against rough driving and promote safe driving.

(a) Make a four-slide presentation as follows and save it as your name and personal number. (2marks)

(i) Slide 1: The name of the organization and presenter, and topic. (4marks)

(ii) Slide 2: A column chart representing the following data. (6marks)

	KILLED	INJURED
2011	3343	16619
2012	3124	14892
2013	2937	14346
2014	2845	15003
2015	3224	15202

(iii) Slide 3: What drivers should do and should not do while driving. (4marks)

(iv) Slide 4: A summary of the main points. (4marks)

(b) Use three relevant pictures at least in your presentation. (2marks)

(c) Every slide except slide 1 should have an action button to go back to the previous slide. The button should be placed in the bottom left corner. (2marks)

(d) Apply an entrance animation to the title of each slide. (2marks)

(e) Apply a transition to all the slides. (2marks)

(f) Insert a footer of your name. (1mark)

(g) Save and print all your slide as handout on one page. (1mark)

4. The manager for a newly established hospital called Lugongo Hospital has approached you to design a web site for the hospital.

(a) Using web publishing software of your choice, design a three-page web site for the hospital with the following details and save it as your name and personal number. (2marks)

(i) Homepage: containing introduction, departments, location and contacts for the hospital. (5marks)

(ii) Page2: showing an appointment form for outpatients. The form should have the space for patient's name, age, sex, contact and date to visit. (6marks)

(iii) Page 3: listing vaccinations provided. (5marks)

(iv) Page 4: showing an advertisement offering employment for doctors and nurses. (5marks)

(b) Create links to navigate users to each page. (2marks)

(c) Use appropriate background colours. (2marks)

(d) Put suitable logos and pictures. (2marks)

(e) Save and print your work. (1mark)

END