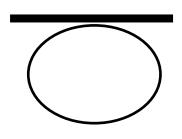**840/2**

COMPUTER STUDIES

PRACTICAL

Paper 2

July 2017

$2^1/_4$ hours

UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Certificate of Education

COMPUTER STUDIES PRACTICAL

Paper 2

2 hours 15 minutes

INSTRUCTIONS TO CANDIDATES:

*The paper consists of **two** sections, **A** and **B***

*Section **A** contains **one** compulsory question that takes 40 marks.*

*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 flash disk"** or a **blank compact -disc rewritable**.*

Candidates should continuously save their work

*Each candidate **must** produce a **hard copy** for each of their work to accompany the*

diskette or compact disc.

Software wizards must not be used.

Create a folder on the desktop with all your names and save your work there

1. (a) Type the following document as it appears using suitable word processing.

(03 marks)

The use of DDT is welcome

Malaria is the biggest health problem in Uganda and Africa in general. Its toll in Africa is the heaviest yearly. 90% of (<u>*World*</u>) malaria deaths occur in Africa. It is responsible for over 300 million cases of acute illness each year leading to many deaths. ~~On the economic front, malaria costs Africa more than $12 billion annually~~. It has slowed economic growth in African Countries by 1.3% per year. If the disease had been wiped out decades ago, about $900 billion would be added to sub-Saharan African's GDP of about $3.00 trillion.

Malaria transmission occurs by mosquitoes moving to houses, entering during the early evening, resting indoors and at some point during the night, landing on humans and biting them. During the act of biting, the mosquitoes might acquire malaria parasites and become infected, or if already infected, they might transmit malaria to another human.

(i) Copy the typed document above and paste it on page 2. (01 mark)

(ii) Using the pasted copy on page 2, format the heading of the font "Bell MT" with font size 26, double underlined and the rest of the text in font size 13. (02 marks)

(iii) Convert paragraph 1 into a two column with a line in between the columns. Apply a light blue background color. (02 marks)

(iv) Change line spacing of Paragraph two to 2 points and justify your work. And insert a **header** of your name and Reg No. (02 marks)

(v) Drop cap the first letter of the second paragraph and give it a red colour. (02 marks)

(vi) Insert an auto text **page X of Y** aligned to the right. (02 marks)

(vii) Apply a printed watermark (text watermark) diagonal, using your surname in red color and Comic sans Mt small caps. (02 marks)

(viii) Draw a rounded rectangle at end of the last paragraph with a text "***Malaria is Dangerous Please!!!!***" bolded in font size 18 (02 marks)

(ix) Save your work with a name "**Malaria**" and make a print out. (02 marks)

(You are expected to spend 25 minutes on this question)

(b) Enter the data below into a suitable spread sheet application program and save it as **"Raw Marks"** (04 marks)

Student Number	Names	Telephone number	Test A	%	Test B	%
01	Harriet	0712445230	53		43	
02	Beth	0702512012	48		22	
03	Harith	0772652310	62		35	
04	Bruno	0773652149	85		68	
05	Hyde	0782416212	56		56	
06	Hearte	0752316242	72		70	
07	Pilly	0774512634	62		48	

(ii) Copy the work in (i) and paste it in worksheet 2 of the same workbook. Name the worksheet 2 as "Percentage-marks". (02 marks)

(iii) Given that Test A and Test B are Marked Out of 90 and 70 respectively, enter appropriate formulae to calculate the percentage marks to one decimal place value for both tests using "percentage-marks" worksheet. (02 marks)

(iv) Use functions to obtain the difference between the highest and the lowest percentage marks in Test A in cell E15. (02 marks)

(v) Calculate the average mark for Test B in cell G15. (01 mark)

(vi) Using the "if statement, assign grades to students using their percentage marks of test B in a way that , marks above 80, assign a **D1**,75-79, a **D2**, 70-74, a **C3**, 60-69, a **C4**, 50-59, a **C5**,the rest an F. (03 marks)

(vii) Add a column comment and determine the comments as follows; 80+ = **"Excellent"**, 70-79 = **"Very Good"**, 60-69= **"Tried"**, 50-59 = **"Fair"** otherwise **"Work Hard"**.

(02 marks)

(viii) Select the names, set A and Set A % columns to form a column chart with appropriate title and labels. Save it as **Performance Analysis**. (03 marks)

(ix) Using this chart, convert the values for set A into a line graph. (02 marks)

SECTION B (60 MARKS)

(You are supposed to spend 40 minutes on this number)

2. You have been given a contract to design a four-page website for a school in your district.

    - Use a background of Fuchsia in all your pages (01 mark)
    - A horizontal solid line with height 6 across your web pages (01 mark)
    - A moving marquee as "**Education is Life, Your life Your Education**" on all pages created in Font size 18, Comic Sans Ms, bolded and italicized in blue color.

      (02 marks)
    - Your name and Index number at the end of the first page (01 mark)

    (a) Design the pages as outlined below:

    Page I: Name of the school, contact address and any Clip Art to represent the school buildings. (05 marks)

    Page II: Location: - this should include the district, division and a simple auto shape drawing of a school map showing the direction of the school. (05 marks)

    Page III: A simple form for the interested parents to fill for their children on-line. It should include Name, Class, Age, Nationality, Religion, Parent's Name and Contact.

    (05 marks)

    Page IV: It should show the organizations that are friends to the school. (04 marks)

    (b) Use appropriate working links. (02 marks)

    (c) Save your web pages as "**School web**" (02 marks)

    (d) Print your work (02 marks)

3. Using an application of your choice, create a database with file name Voters 2017, to hold the following table

(a) Design a data table basing on the guidelines given in the table below and save the table as **Voter's Register** (03 marks)

Field Name	Guidelines on Field Properties
Voter ID	This is a unique identification number for each Voter
	It is made of 8 characters only
Voter's Name	Maximum of 18 characters
Sex	Set up the field to allow users choose from the existing values (F or M)
Date of Birth	Will be written in the format mm/dd/yyyy
Residence	Maximum of 10 characters.
Allowance	This field will accept only numeric entries
Duration	This field will accept only numeric entries at least 1 value
Total Amount	This field will accept only numeric entries

(b) Design a form having all the above Field Names and save it as **Voters Entry Form**.

(01 mark)

(c) Enter the following data into the form you created above. (04 marks)

Voter ID	Voter's Name	Sex	Date of Birth	Residence	Allowance	Duration	Total Amount
UGA-004	Akena Joseph	M	1980-01-30	Luzira	6000	2	
UGA-010	Opolot Mike	M	1962-09-17	Mutuga	7800	4	
UGA-200	Ainomugisha Flavia	F	1990-10-10	Luwero	8000	2	
UGA-100	Bogere Evelyn	F	1987-04-12	Luzira	3500	3	
UGA-098	Naiga Sandra	F	1973-12-25	Luzira	8900	2	
UGA-072	Mugole Fred	F	1984-11-11	Matuga	2300	4	
UGA-090	Kukundakwe Ivan	M	1942-01-16	Luwero	6500	3	
UGA-073	Kakaire Robert	M	1904-10-09	Luwero	7780	2	
UGA-008	Lukwago Kerich	M	1993-12-19	Matuga	2800	2	
UGA-192	Mutaama Vincent	M	1990-03-27	Luwero	9800	4	

(d) Include a formatted header as "Voter's Registration 2017", in font size 28 Bold, red color and underlined with Bookman Old Style. (02 marks)

(e) Footer of your name and index number (01 mark)

(f) Add a field **Age** that shall return the actual Age for each Voter and at least two command buttons of your choice. (04 marks)

(g) Calculate total amount using an appropriate formula. **Note:** Total Amount is got by **Allowance * Duration** (02 marks)

(h) Create **five** queries to return;

    i. All female voters who do not reside in Matuga. Save the Query as **Female**.
(02 marks)

    ii. Voters whose Voter Number is from 002 to 100 and born between 1900 and 1980. Save the query as **born**. (02 marks)

    iii. Voters whose names begin with letters between A to M. Save the query as **Begin**. (02 marks)

    iv. The actual age of each voter by now in a new field name Age. Save the query as **Actual**. (02 marks)

    v. Total Amount. Save it as **Calculated Query** (02 marks)

(i) Using the query saved as Actual, create a report you will save as **Actual Report**.
(02 marks)

(j) Print all your database objects. (01 mark)

4. Create a five – slide presentation about the hardware computer components. In your presentation use the information below.

(a) Make slide **One** a slide master and customize it as follows (06 marks)
- ❖ Glass Layer as the slide design
- ❖ Your name and index number centered
- ❖ Date and time right aligned and Slide numbers to the right
- ❖ A 6pt blue line between the title and sub title
- ❖ A clip art image of a computer top right on top of a line.
- ❖ Titles should be font 48 comic sans Ms
- ❖ Sub title should be font 28 Times New Roman

(i) **Slide I** – is a title slide with the heading **HARDWARE COMPONENTS OF A COMPUTER**. And thus define it. (03 marks)

(ii)**Slide II** – list the input hardware devices using a two column slide.

(03 marks)

(iii)   **Slide III** – a list of output hardware devices (03 marks)

(iv)   **Slide IV** – a list of secondary memory devices (03 marks)

(v)**Slide V** – a list of processing devices (03 marks)

(b) Use appropriate transitions and animation schemes and colors to view your presentation.

(02 marks)

(c) Apply **relevant** clip art in your presentation (02 marks)

(d) Link all your slides using action buttons. (03 marks)

(e) Save your presentation as **HARDWARE** and print as a hand-out. (02 marks)