840/2

COMPUTER STUDIES

PRACTICAL

Paper 2

September, 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 is and follow the instruction in the required list: (4 marks)

HARDWARE COMPONENTS

Input Hardware
One of the most important hardware components is the input hardware. It enables users to enter data and instructions into the computer memory. Without it, users may find difficulty in entering instructions and data in the computer's memory.

Processing Hardware
The most important function of any computer is processing. Microprocessor technology has jumped to reach the current nearly unbelievable 3.6 GHz just with in the last 10 years.

Storage Hardware
The need for storing large amounts of data has arisen with the expansion of information technology in business. The drive towards convenience and portability of data has become the main issue of concern for the modern business man/woman.

MEDIUM	CAPACITY	PRICE
CD-ROM	700MB	2,500
Hard disk	80GB	100,000
Flash disk	2GB	35,000
DVD	4GB	50,000
External Hard disk	250 GB	200,000

a) Make the top most heading font size – 18, centered and double underlined (03 marks)

b) Shade the first and third columns of the table with Yellow and Green.   (02 marks)

c) Drop cap to the first letter of each paragraph to 2 lines   (02 marks)

d) Insert an Octagon auto shape in paragraph two, fill it with dark blue color and make it appear behind text   (02 marks)

e) Copy paragraph 3 and paste it on the next page two times.   (02 marks)

f) Insert a header of your name and personal number as a footer   (01 mark)

g) Insert a 4.5pt line at the end of the page and header of your name.   (02 marks)

h) Save your document as Hard-Your name and print a copy.

B) Use a spreadsheet program to enter the following information and perform the following activities as indicated in the required list.

	A	B	C	D	E	F	G	H	I	J
1		Pay Rate	Tax Rate							
2		20%	10%							
3	**Weekly Employees' Sales Report**									
4	Employees	Week1	Week2	Week3	Week4	Total	Payment	Tax	Net Pay	Position
5	Rose Muche	350000	600000	650000	510000					
6	Don Trump	280000	300000	310000	290000					
7	Lucky Duale	500000	400000	390000	410000					
8	Atai Crucia	100000	150000	200000	300000					
9	Mable Yola	45000	80000	100000	150000					
10	Hata Aje	340000	400000	410000	500000					
11	James Bond	700000	650000	900000	810000					
12										
13										
14	Lowest Sales:									
15	Highest Sales:									
16										
17										

Required:

i) Use a function to calculate the Total amount for all the weeks in each employee.
(2 marks)

ii) Use the obtained Total value and the payment rate seen on your worksheet and calculate the Payment for each employee. (2 marks)

iii) Use the Tax Rate value and calculate the tax to be paid by each employee from the payment. (2 marks)

iv) Use a formula to calculate the Net Pay for each employee (after tax). (2 marks)

v) Use the formula and from the Total column, calculate the position held by each employee beginning from the highest total sales to the lowest total sales.
(2 marks)

vi) Use a function to calculate lowest sale performed in every week in row 14.
(2 marks)

vii) Use another function to calculate the highest sale performed in every week in row 15.
(2 marks)

viii) Rename your worksheet as Employees. (2 marks)

ix) Create a Pie Chart based on Employees and Total columns showing values in Percentage. Your chart should be just below your data. (2 marks)

x) Print your work. (1 mark)

xi) Save your work as: Your Name – Employees. (1 mark)

SECTION B (60 MARKS)

Attempt any two questions

2. The ICT teacher of **Koinange High School** has requested you to prepare a presentation about Computer Software to be used in a Form two lesson. You should design a summarized presentation as described below:

Slide I: Should include the heading of the topic to be presented and your full name as the name of the presenter. (02 marks)

Slide II: Should include the definition of Software. (02 marks)

Add presenter notes: "Software is the Intangible part of the Computer" (01 mark)

Slide III: Should include a small software chart showing only software and the three branch of software (i.e. Systems Software, Application Software, and Development Software)

(04 marks)

Slide IV: Should include a list of five application software programs (04 marks)

Slide V: Should include five functions of Operating System (04 marks)

Slide VI: Should include a list of five Utility programs (04 marks)

- Include minimal animations (02 marks)
- Include action buttons that can make presenter move back and forth in each slide

(01 mark)

- Put your name as a footer in each slide (01 mark)
- Use related and relevant clip art images. (02 marks)
- Use different designs and background colour on every slide (02 marks)
- Save your presentation using your full names and Print your handout. (01 mark)

3. A security organization runs a saving scheme for its members. You have been asked to use a database management system to help the scheme members maintain records of the association.

(a) Create a database called "SECURE – Your name" that has the following fields of data for each member. (01 mark)

Employee No.	First Name	Last Name	Membership No.	DOB	Membership Fee (SHS)	Fully Paid
N-001	Kintu	Mark	4321	12/11/1990	200000	Y
N-002	Akullo	Warren	5855	10/01/2015	50000	N
N-003	Akongo	Joshua	514	08/08/2003	12000	N
N-004	Kifampa	Bob	123	12/01/1999	10000	N
N-005	Kaleb	Peter	411	10/03/2014	70000	N
N-006	Ondigo	Sophie	868	12/12/2010	100000	Y
N-007	Wakiaga	Precious	654	14/01/2013	140000	Y
N-008	Aketch	Lucy	744	11/03/1992	600000	N

(b) Assign an appropriate primary key and data types for your table and save it as Employee Table. (02 marks)

(c) Use a Form to enter the records in your database, save the form as **Data Form Entry**. (07 marks)

(d) Include data and time on your form and lock it (01 mark)

(e) Use a query to compute;

    (i)   Age of members of the association, save query as Age. (04 marks)

    (ii)   Those whose first name start with letter A and aged 18 and above name it " Age 18" (03 marks)

    (iii)   Members born between 1990 and year 2013 and above, save it as Born. (03 marks)

(f) Generate another query with a new field Tax to calculate for tax given that it is 25% of the amount paid. (03 marks)

(g) Using the above query, calculate the Net Amount Paid given that it is a difference of Membership fee and Tax. Save it as Net Amount. (03 marks)

(h) Generate a report for Net Amount Query, save it as Net Repo and include your name in the footer section. (03 marks)

4. An NGO "Butembe development forum" (BUDEF) is looking for a competent webmaster to design the forum's website containing the following information.

(02marks)

Index page: To contain the homepage, a brief welcome message, a list of objectives and how to navigate the site. (02marks)

Page 2: To contain a list of activities carried out by the foundation. (02marks)

These include:

- Cultural revitalization among the people.
- Poverty alleviation programmes.
- Educational scholarship for about 100 students every year.
- Main chiefdom's heritage by showing a clear view of tourism sites like:
  - Chief enthronement site.
  - Itanda falls.
  - Masese landing site, etc.
- Foster family and children ties rooted in religious values.
- Outreach programmes intended for follow up of the chiefdom history and progress.

Page 3: Should contain a list of five people that the general public can contact for any questions, suggestions, etc. (02marks)

Instructions:

- The site should have a shared red banner with white text having the foundation name. (06marks)
- Include a marquee on all pages reading '*culture our life.*
  It should have a speed delay of 90 seconds scroll amount of 6 and an alternate marquee behavior font colour blue. (04marks)
- The site should have a horizontal navigation layout for Home, Activities and contact us. The links should be appearing on each page. (06marks)
- Include other five tourist sites in your home area to be include On page 2 after the third bullet. (02marks)
  - Include four good clip art pictures on page 2. (02marks)
- Insert an email link at the bottom of the third page: info@budef.org (01mark)
- Print all your work. (01marks)

END
Success in Your 2017 UCE Exams