

840/2
COMPUTER STUDIES
(PRACTICAL)
Paper 2
Jul/Aug. 2023
2 ½ hours



WAKISO-KAMPALA TEACHERS' ASSOCIATION (WAKATA)
WAKATA MOCK EXAMINATIONS 2023

Uganda Certificate of Education

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 Disc (CD)

Each candidate must produce a hard copy for each of their work to accompany the Compact Disc (CD)

Software help wizards must not be used.

SECTION A: (40 MARKS)
This section is compulsory.

1. (a) Using a word processing programme of your choice, type-set the following document to appear as it is. (04 marks)

For any computing device storage is a very important aspect of a computer system. Today computing devices are like phones, tablets and computer vary in the price due to differences in the storage capacity. The bigger the storage, the higher the price.

Basically for computer users, it's important to identify the suitable storage device that can be used when setting up a computer system.

Here are a number of storage devices that can be considered: Hard disk, CD/DVD Rom, Floppy disks, magnetic tapes, memory cards, flash disks.

As you start looking for a storage device, ask yourself these questions

- What is the capacity of data I want to store?

- Is it intended or extended storage

Today we take through some of the storage devices for you to take a decision for a better storage device.

Hard-disk

This is the primary storage device of modern computers; it is installed inside the computer to hold the operating system but can also be housed within an external case for backup services.

- It has a higher access time

- Has a bigger storage capacity i.e. over 3000GB

- Modern SATA HDD is portable.

CD/DVD

These are optical storage devices

- CD/DVD are small and portable

- Very cheap to buy

- Most computers can read CDs

Otherwise CD/DVDs

Are fairly fragile, easy to snap or scratch smaller storage capacity than hard drive or DVD.

You are now going to edit a document about choosing a storage device for a computer.

- (i) Set the page size to A4, page orientation to portrait, both top and bottom margins to 2cm, left margin to 2.5cm and the right margins to 1 cm. (02 marks)
- (ii) Copy the entire text to page 2 and apply the formatting to the new copied text. (01 mark)
- (iii) Set all text to 13 points Cambria Math with single line spacing and justified. (01 mark)
- (iv) Create a blank line 12 points high after each paragraph and that the line spacing is consistent. (01 mark)
- (v) Place your name, personal number, the automated file name and path in the header section of the document. (01 mark)
- (vi) Place today's date and an automated page number in the footer. (01 mark)

- (vii) Insert a blank line at the start of the document and enter a title **"Storage Device of My Computer"**. (01 mark)
- (viii) Make the title centre aligned with a 26 point Arial black. Make only the word **"Storage"** italic. (01 mark)
- (ix) Add this subtitle below the title. **Choosing your storage by:** and add your name. Set the subtitle to be, an 18 point Berlin Sans FB, underlined, right aligned. (01 mark)
- (x) After the subtitle format the rest of the document into two equally spaced columns, with a 1 centimeter gap. (01 mark)
- (xi) Insert an image of a floppy disk from the clip Art and place it in the left column of the first page at the start of the second paragraph just after the heading choosing your storage, align it with the top line of the text and the left margin. (01 mark)
- (xii) Re-size the image to fill about half the column and maintain the aspect ratio. (01 mark)
- (xiii) Find all subheadings in the document and set them to font size 14 with centre alignment. (01 mark)
- (xiv) Identify the word storage device in the entire document and format it with bold, italic and red color. (01 mark)
- (xv) Save the document as "Storage - Your Last Name - Personal Number". (01 mark)
- (b) (i) Using a spreadsheet program of your choice, Enter the following information indicating all borders. Save the work as **"Techno payroll system-Your name- Personal number"**. (04 marks)

TECHNO SERVICE SHOP EMPLOYEE PAYROLL								
Name	Position	Basic pay	Transport	Medical	Gross pay	NSSF	PAYE	Net pay
Apolot	Contracts officer	185,000						
Musoke	Data Entrant	800,000						
Muhumuza	Accountant	950,000						
Odeke	Data manager	1,020,000						
Nabirye	Secretary	900,000						
Kirya	HR officer	1,600,000						
Tashobya	Administrator	920,000						
Idirigi	Ass Director	2,050,000						
Opyo	Director	3,100,000						

- (ii) Use the information given in the below:

Allowance	Percentage (%) of basic pay
Transport	15
Medical	10

Calculate:

- (iii) The Gross pay [total of basic pay, Transport and Medical]

(03 marks)

(iv) The total amounts spent on each of the following

- Basic pay
- Transport
- Medical
- Gross pay

(04 marks)

(v) If NSSF IS 5% of Gross pay, calculate the NSSF deducted from each employee.

(02 marks)

Basic pay	PAYE
>=2,000,000	30%
>=1,600,000	25%
>=1,000,000	20%
>= 950,000	15%
>= 850,000	10%

(vi) Using the IF function, and the information in the table above, calculate the PAYE for each employee.

(03 marks)

(vii) Enter a formula in spreadsheet to calculate the Net pay for each employee.

(02 marks)

(viii) Use a chart to illustrate the Net pay received by each employee.

(02 marks)

SECTION B: (60 MARKS)

Answer any two questions from this section.

2. (a) Using a data management system of your choice, Create a new database and save it as "Student info-Your name"

(02 marks)

(b) Create the table below in the design view mode and assign its fields the most suitable data types. The table should be saved as **students** and enter the data as shown in the table below.

(06 marks)

Student Name	Student No	Sex	DoB	Contact	Fees Paid
KYAMNYWA	AFT-256	M	15/03/1987	0775057896	480,000
TYOMUHENDA	ABT-200	M	6/04/2001	0772568925	320,000
CHEPTAI	AFD-150	F	17/10/1990	0704568923	500,000
NAJJINGO	ACD-115	F	25/12/1999	0752114477	250,000
SSERUNJOJI	AST-124	M	23/11/1996	0779326598	450,000
OKOTH	AQL-250	F	9/08/1983	0756253669	300,000
MALENI	AWT-221	M	4/09/1995	0778214587	610,000
ALERO	BHT-210	F	16/07/1988	0783569874	790,000
WAKHATA	AFT-147	M	15/05/1985	0773014107	600,000
MBABAZI	KFT-154	F	4/03/1984	0778214697	350,000
BISIKWA	AFT-100	F	6/12/2000	0775829137	410,000
LIGGYA	CFT-126	F	30/11/1989	0702154876	900,000
ERIMU	VFM-132	F	12/01/1991	0703659137	720,000
IMOKO	DFT-165	M	25/06/1980	0701987364	280,000

(a) Set student number as the primary key.

(01 mark)

- (b) Create a form with all fields that can be used to enter data into the database. (04 marks)
- (c) Create a query with a new field called **"Balance"** to calculate the student's fees balance if the school fees per student in the school is 790,000/= and save it as **Student Balance**. (04 marks)
- (d) Create a query to return only students whose fees balance is less than 250,000/= and save the query as **student query**. (03 marks)
- (e) Create a query that with a new field Age that will calculate student age on run time. (04marks)
- (f) Produce a report from all the data which: (06 marks)
- Contains a new field called **"Bursary_deduction"** which is calculated at run-time. Bursary deduction is calculated as 15% of the fees paid.
 - Has the **"Bursary_deduction"** field displayed as currency
 - Shows only the records of female students with **mtn** contact whose fees paid is more than 380,000/=
 - Shows only the fields Student No, Student Name, DOB and Balance in that particular order.
 - Sorts the data into ascending order of student name
 - fits on a single page
 - has a page orientation of portrait
 - includes the heading **Student Information** at the top of the report
 - Has your name and candidate number on the right at the footer section of the report.

3. As computer student, you are required to make a presentation that will sensitize the public on the dangers of environmental degradation.

- (a) Create a six slides presentation with the first slide as a header slide and save it as **"environment-Your name"** (02 marks)
- (b) Use a single master slide to display at least four of the following features on all slides: These may include text, lines, logo, image(s), slide numbers, colours or a template, and may have animations or transitions. (04 marks)
- Your name and candidate number must also be on the same master slide.
- (c) **Slide 1:**
Should have the title of the presentation formatted with size: 36, color: Green, Centre alignment, Arial black and your name as the presenter. (03 marks)
- (d) **Slide 2:**
Must have an appropriate sub title and a clear definition of the term environmental degradation. (03 marks)
- (e) **Slide 3:**
Use bullets to list at least three causes of environmental degradation (03 marks)
- (f) **Slide 4:**
Explain the negative effects of environmental degradation (03 marks)
- (g) **Slide 5:**
Describe how environmental degradation can be controlled. (03 marks)

(h) **Slide 6:**

Using a slide of your choice and the data in the table below, draw a chart to show how degradation of environment has affected different districts in Uganda. (02 marks)

District	Kampala	Mukono	Wakiso	Jinja	Mbale	Soroti
No Areas Affected	1895	750	910	550	640	320

Note: Content of different slides should not overlap with content of the master slide.

- (i) Copy the chart to a new work sheet and rename it as chart (01 mark)
(j) Apply a layout on the chart that will show the Chart title, data series and data labels on the chart (02 marks)

- (k) Apply relevant Transitions on all slides of your presentation (02 marks)
(l) Insert navigation buttons on all slides that will help you link different slides. (02 marks)

4. Assuming that you are a new website developer in town, use any appropriate web publishing software of your choice, design a five pages website about your new IT company with the following features;

- (a) A home page with relevant general welcoming information to your visitors. e.g Name of the company, Slogan, Logo and welcoming remarks (03 marks)

- (b) Other pages with the following information:

- Page 2: brief company background and Feedback message from customers (03 marks)
Page 3: company location and top members of staff (03 marks)
Page 4: company products and services (03 marks)
Page 5: company objectives, Mission and Vision (03 marks)

Note:

- (i) Add a moving marquee to a slogan on the home page. (02 marks)
(ii) Use appropriate graphics for the different pages (04 marks)
(iii) Apply an appropriate background color gradient for web pages (02 marks)
(iv) Include your contact details as the website designer on the footer section of each page (02 marks)
(v) All your pages should have linked navigation buttons that will be used to browse through the website (03 marks)
(vi) Save your website as "my company-personal number". (02 marks)

END