

SECTION A(40 MARKS)

1.A Type the following document and draw the chart as seen below:

Software is a set of instructions or programs that tells the hardware parts on what task to perform and how to do it. Software has two major parts that include:

- i) Systems software
- ii) Applications Software

However, software can be shown with all its subordinates as seen in the chart below:

<u>COMPUTER SOFTWARE</u>									
Systems Software						Applications Software			
Operating Systems	Utility Programs	Programming Languages				Off-the-Shelf Software	Custom Made Software		
UNIX	<ul style="list-style-type: none"> - Anti Virus Utility - Merge Utility - Sort Utility - Disk Repair - Screen Saver - File Defrag menter 	Machine Programming Language	Assembly Programming Language	High Level Programming Languages	Forth Generation Languages	Fifth Generation Languages	Object oriented Languages	<ul style="list-style-type: none"> - Electronic spreadsheets - Database Languages - Presentation Software - Word processing - Web Browsers - Desktop Publishing. 	- These are programs that are designed to solve a specific user problem.
LINUX									
DOS									
Windows xP									
NetWare									
Macintosh									

Required:

- i) Typing and tabulation of the above work (10 marks)
- ii) Format your work in the boxes to appear with different colors of your own choice (02 marks)
- iii) Change the font face of the operating systems column to appear as **“Impact”**(02 marks)
- iv) Put your name and index number as a footer (02 marks)
- v) Put the page number at the top right of your document. (02 marks)
- vi) Save your work as “Your Names” (02 marks)

1B. The following spreadsheet worksheet shows purchases and sales of **Juma Kiungwana's** Business.

	A	B	C	D	E	F	G
1		Quantity (in Kg)	Purchasing Price (in Kg)	Selling Price (in Kg)	Profit (in Kg)	Total Profit	Comment
2	Rice Super	450	2000	2600			
3	Beans	600	2500	3000			
4	Wheat Flour	500	4100	4000			
5	Cassava	150	1000	1000			
6	Salt	1000	600	800			
7	Maize Flour	250	1000	1200			
8	Banana Flour	120	2000	2000			
9	Rice Vietnam	700	1600	1500			
10							
11							
12	Maximum (Qty)						
13	Minimum (Qty)						
14							
15							
16							

- i) Enter the above data in your worksheet (1 marks)
- ii) Rename your sheet as "**Business**" (01 mark)
- iii) Use formulas to calculate the profit on each kilogram for each item (03 marks)
- iv) Use formulas to calculate the total profit obtained from each item (03 marks)
- v) Calculate the total cash at hand after all sales have been performed in cell **F11** (2 marks)
- vi) Use the function to display a comment "**Abnormal Profit**" if the Total Profit is above 0 (zero) sales, "**Normal Profit**" if the total profit is 0 (zero), and "**LOSS**" if the total profit is less than 0 (zero). (3 marks).
- vii) Create a Column graph showing the variation of Profit (in Kg) column and fix it on its own sheet (3 marks)
- viii) Rename your chart sheet as "**Profit Chart**" (01 mark)
- ix) Put your name and index number as a footer (02 marks)
- x) Save your work as "**Your Names**" (01 mark)

SECTION B(60 MARKS)

Attempt only two questions in this section

2. Create a database called **Transportation Company**. Inside this database you create a table called **Employees**

EmpID	Fname	Lname	Status	Department	Designation	Salary	FoodAlc
EP001	Maaso	Bone	Contract	IT	Programmer	450000	10000
EP002	Opio	James	F.Time	Accounting	Manager	700000	20000
EP003	Nambi	Loy	P. Time	IT	Clerk	150000	5000
EP004	Muaso	Trevor	F. Time	Marketing	Manager	500000	15000
EP005	Tusabe	Titus	Contract	Marketing	Consultant	400000	60000
EP006	Otawa	Olver	F. Time	IT	Manager	900000	100000
EP007	Mutebi	Timous	F. Time	Transportation	Manager	490000	20000
EP008	Kente	Norah	F. Time	IT	Clerk	200000	20000
EP009	Kemba	Dan	F. Time	Transportation	Driver	250000	20000
EP010	Yine	Peter	F. Time	IT	Net-worker	300000	20000
EP011	Kenyaana	Joy	P. Time	IT	Clerk	160000	5000

Required: (30 marks)

- i) Create the database and its table as described above.
- ii) Create a query to display only those records that begin with **M** under Fname
- iii) Create a query to display only those records that begin with **Ke** but the rest of the characters should not exceed **three (3)** in the **Fname** field. save it as fname ke
- iv) Create a query that can display only records that have **r** any where in the **Lname** field. save it as lnamer
- v) Create a query to calculate **Total Pay** but should only include **Fname**, **Department**, **Salary** and **FoodAlc** fields. Save it as Total pay. NB **Total Pay= department Salary + FoodAlc**
- vi) If all employees whose salary is above 250000 should pay 20% tax, create a query to display only taxable employees with their calculated tax. Display only **Fname**, **Lname**, **Department**, **Salary** and calculated **tax**. save it as Calculated tax
- vii) Create a form for your table using design view. Save it as employees form
- viii) Create a report for the queries ii and v save them as report ii and report v respectively.

3. You are required to design a presentation explaining for the Public about **Computer generation** so as to highlight the characteristics of the different computer generations. (30 marks)

SLIDE I: Definition of computer Generation.

SLIDE II: Characteristics of Computers in the first Generation

SLIDE III: Characteristics of computers in the Second Generation

SLIDE IV: Characteristics of computers in the Third Generation

SLIDE V: Characteristics of Computers in the Fourth Generation

Slide VI: Characteristics of computers in the fifth Generation

Slide VII: Types of computers made in the different generations.

NB

- Animations, Slide transition and graphics should be included
- Include a footer as your name and index number

4. Assuming that your school has got quite a number of departments. Using any appropriate web publishing software, design a web site about your school, based on the following tasks;

(a) A home page with general welcoming information, school campus, location and address, school motto, vision, and mission statements. (05 marks)

(b) Create other pages with the following information:

Page II: School administration page with basic administrators with their job Summaries. (04 marks)

Page III: Games and sports page with a school's sporting activities summary. (03 marks)

Page IV: Students leadership page with student leaders and their activities. (03 marks)

Page V: Student spiritual life including prayers and devotion services, etc. (03 marks)

Note:

(i) Create a moving marquee page title for the home page. (02 marks)

(ii) Use appropriate graphics for the different pages. (05 marks)

(iii) Appropriate background colour mix. (02 marks)

(iv) Include contact details of the website designer (02 marks)

(v) Include page navigation hyperlinks (02 marks)

(vi) Save your website with your name and index number. (02 marks)