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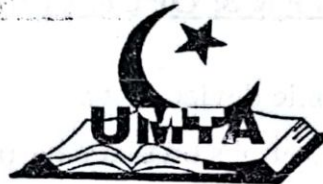
COMPUTER STUDIES

PRACTICAL

Paper 2

July/August 2023

2 ½ Hours



UGANDA MUSLIM TEACHERS' ASSOCIATION

UMTA JOINT 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 consists of TWO compulsory question.*
- ❖ *Section B contains three questions. Attempt any two questions from this section.*
- ❖ *Each candidate is provided with a Compact disc or Rewrite CD or Flash disc*
- ❖ *Candidates should continuously save their work.*
- ❖ *Each candidate must produce hard copy for each of their work to accompany the compact disc or Rewritable or Flash disc*

SECTION A

Answer all questions in this section

1.A) WORD PROCESSING

Type the following text in word processing software and save it in a folder using your Name and index Number. (6Marks)

INTRODUCTION TO COMPUTER & OPERATING SYSTEMS

A computer is a machine or an electronic device that can solve problems by accepting data, performing certain operations on that data (processing) and presenting the results of those operations (Information). Basic characteristics that distinguish a computer from other information

Processing devices:

- i) A computer is electronic-That is, all its processing operations are carried out with electrical signals
- ii) A computer can store information for future reference. This is done on temporary basis with memory circuits and permanently with storage devices such as magnetic disks and tape.

HOW A COMPUTER OPERATIONS

Converting the data (raw facts) into information (Organized, usable form) is called data processing. Data get into the system by means of input device e.g keyboard then the performs the necessary calculations or manipulation on the data and finally the organized information is displayed by an output device e.g a monitor.

FUNCTIONS PERFORMED BY A COMPUTER

Although computers have many applications, they can perform only three basic tasks.

1. Arithmetic functions on numeric data (adding, subtracting, multiplying and dividing)
2. Test relationships between data items (by comparing values)

These skills are really no more than people can do, but the computer can accomplish can the task more;

- Faster
- Accurately
- Reliable

Required

1. Align the title to the center and underline it (1Mark)
2. Add border to the title (1Mark)
3. Replace all the Roman numbers with bullets (2Marks)
4. Set the line spacing to exactly 1.5 (1Mark)
5. Justify all the work (1Mark)
6. Insert word Art "COMPUTER" and set it to appear behind the text. (2Marks)
7. Search for words "Computer" and replace all with "PC" (1Mark)
8. Move paragraph with the heading "how a computer operates" to the end of the document (1Mark)
9. Set the font style of the document to Arial black (2Marks)
10. Save your work as "computer literacy" (1Mark)
11. Print your document (1Mark)

1. B) SPREADSHEETS

Uganda Cranes were supplied with kits for training. Using an electronic spreadsheet design and enter the data as it appears.

Uganda Cranes Kits							
Dressing No	First Name	Second Name	T-Shirt Color	T-Shirt Size	T-shirt Deposit	Balance	Remarks
101	Nithan	Mukasa	Heather grey	Large	5000		
102	Christiana	Nalwadde	White	Large	1000		
103	Sidney	Namanya	Dark Red	Small	3000		
104	Derek	Lubega	Dark Red	Medium	7000		
105	Melisa	Namulindwa	Heather grey	Small	10000		
106	Esther	Apio	Dark Red	X-large	2000		
107	Kris	Ogwanga	Heather grey	X-large	3000		
108	Musa	Bamujje	Dark Red	Small	2000		

(ii) Enter data using a spreadsheet application and save the spreadsheet as Uganda Cranes.

(5 Marks)

(iii) Align the heading to centre across selection

(1 Mark)

(iv) Renamesheet1 as baby Cranes –T-Shirts.

(1 Mark)

(v) Validate the T-Shirt Deposit column to only allow numbers between 0-100000 with relevant input messages and error alerts.

(2 Marks)

(vi) Enter the label COST in cell A12 and value of COST per T-Shirt in cell A15 at 1000.

(2Marks)

(vii) Generate the balances by subtracting deposit from COST. (1 Mark)

(viii) Generate remarks where the value is equal to 0 the remark should read "Paid -up",
whereas the balance is more than half of the COST, the remark reads "more than half paid"
otherwise the remark should read "Pay -up" (4Marks)

(ix) Copy Baby Cranes-T- Shirts to sheet2 and name it as Small -T-Shirts. (1 Mark)

(x) Filter the data to display only Small T-Shirts Sizes records. (1 Mark)

(xi) Using Baby Cranes-T-Shirt create a column graph on its own sheet and name it as T-Shirt Graph
that compares the Balances and the Deposits paid by the players. (2 marks)

(xii) Print Baby Cranes-T-Shirts Graph. (2Marks)

SECTION B

➤ Attempt any two questions in this section

2. DATABASE

Use the following information to answer the question that follows:

Student Name	Date of Birth	Fee Balance	Admission No	Address
Kibet Rop	23/07/2015	15,000/=	4017	81 Entebbe
Steve Bett	03/04/2016	7,000/=	4319	31 Mulago
Selly Kawuma	12/09/2016	3,000/=	3982	40 Kabale
George Langat	28/01/2017	11,000/=	4009	38 Soroti
Batte Tamale	17/01/2017	8,000/=	4422	230 Kibisi
Wilson Sekajja	23/06/2018	6,000/=	4200	121 Namusera
Sheila Katende	30/12/2018	1,000/=	4070	73 Mukono
Mary Chebet	08/04/2019	17,000/=	4222	32 Hoima

(a)(i) Create a database called ADMISSIONS and within it prepare a table
called student containing the above information. (6Marks)

(ii) set an appropriate primary key. (2Marks)

(b) In your table under the field of fees balance sort your data in ascending order and save as sortable. (4 Marks)

(c) Create a query from your table and carry out the following:

(i) Set a criteria to show students with a fee balance less than 8,500/=. Save it as fee balance less than 8500. (4 Marks)

(ii) Set criteria to show students names starting with letter S. Save it as S query. (4 Marks)

(d) Create criteria to filter out students whose date of birth is between 1st Jan 2016 and 31st Dec 2018. Save it as between 2016 and 2018. (4 Marks)

(e) Create a form record that shows all fields from the above table. (2 Marks)

(f) Create a tabular report from the student's table. (2 Marks)

(g) Print the form and the report (2 Marks)

3. Using presentation software Create a suitable 4 – slide show presentation for the Network topologies. Save it as “your name -network topology”.

❖ Appropriate animation schemes to view the presentation. (2 Marks)

❖ Appropriate transition for the show. (2 Marks)

❖ Clips and word art where applicable. (2 Marks)

❖ Appropriate design templates and background color. (2 Marks)

❖ Footer bearing your name and index number. (2 Marks)

i) Title for the presentation Network topologies. (2 Marks)

ii) Slide two Definition of network topologies giving examples. (5 Marks)

A network topology is the physical arrangement of the devices in a communications network. (i)

Bus or linear network topology, (ii) Ring network topology, (iii) Star network topology (iv)

Mesh Topology (v) Tree Topology/ hierarchical network topology.

iii) Slide three Bus topology. Definition of bus topology and illustrate the bus topology. (4 Marks)

iv) Slide four: Using a two content slide list the advantages and disadvantages of the bus topology (6 Marks)

Advantages of Bus Topology:

- It is the easiest network topology for connecting peripherals or computers in a linear fashion.
- It works very efficiently well when there is a small network.
- Very cost-effective as compared to other network topology i.e. mesh and star
- It is easy to understand topology.
- Easy to expand by joining the two cables together.

Disadvantages of Bus Topology:

- Bus topology is not great for large networks.
- Identification of problems becomes difficult if the whole network goes down.
- Troubleshooting individual device issues is very hard.
- If the main cable is damaged, the whole network fails or splits into two.
- Packet loss is high.

v) Also save your work as a PowerPoint show. (2 Mark)

vi) Print out a handout having all the slides on one page. (1 Mark)

4. Microsoft Computer Centre is to looking for a suitable webmaster who can design a free running website for the organization. You have been approached to design a website of three pages that include the following:-

(a) Page one: home page – it should include address of the Microsoft computer centre, location and at least three members. (8 Marks)

(b) Page two: activities – it should include the activities of the computer centre. (6 Marks)

(c) Page three: photo gallery – it should include about 2 clips of your choice to represent various activities of the computer centre. (4 Marks)

Required:

i) Create a fast downloading site with three pages. (2 Marks)

ii) Add a shared boarder. (1 Marks)

iii) A suitable banner in exciting colours. (3 Marks)

iv) Include a marquee with a word "MCC all IT solutions". (2 Marks)

v) Add a contact link to the webmaster. (2 Marks)

vi) Save your work as 'Ms compcentre –your name'. (1 Mark)

vii) Print a hard copy of each of the pages. (1 Mark)

END