

MAKERERE UNIVERSITY

SCHOOL OF COMPUTING & INFORMATICS TECHNOLOGY

END OF SEMESTER I EXAMINATION 2020/2021

PROGRAMME: BSc.CS, and B. Journalism, BSC. SE and BIST

YEAR OF STUDY: I

COURSE NAME: COMPUTER LITERACY- ODeL

COURSE CODE: CSC 1100

DATE: 13th September 2021

TIME: 9am-6pm

EXAMINATION INSTRUCTIONS

- 1. DO NOT OPEN THIS EXAM UNTIL YOU ARE TOLD TO DO SO**
- 2. THE PAPER IS MADE UP OF SIX QUESTIONS AND THEY CARRY EQUAL MARKS.**
- 3. ATTEMPT ANY FIVE QUESTIONS IN TOTAL**
- 4. QUESTIONS OF THE SAME APPLICATION SHOULD BE SAVED TOGETHER. PDF DOCS WILL NOT BE MARKED.**
- 5. SAVE YOUR FILE AS STUDENTNAMESTUDENTNUMBERAPPLICATION FOR EXAMPLE IF YOUR NAME KATO LUBWAMA, STUDENT NUMBER21001245, AND THE APPLICATION IS MS WORD, SAVE THE FILE AS KATOLUBWAMA21001245WORD.**
- 6. UPLOAD THE FILES ON MUELE (e.g. WORD, EXCEL), IN CASE OF ANY CHALLENGES IN UPLOADING, EMAIL THE WORK TO YOUR LECTURER.**
- 7. YOU ARE EXPECTED TO HAVE A COMPUTER AND FAIRLY GOOD INTERNET CONNECTION.**

SECTION A:

Question One (20 marks)

You want to compete for a scholarship at Harvard university. You are required to Produce a 3-page auto biography of yourself. Page one should cover your family and its history, your schools, where you have stayed through the years. On Page 2 you talk about your hobbies, values, dreams and aspiration, Page 3 why you want to study at Harvard University and the course and why. Hint (type at least two paragraphs on each page and then copy and paste to fill up the page). Use the Garamond style and font size 12 and apply 1.5 line spacing.

(5 Marks)

- a) Insert an image of any hobby of yours and place a caption at the bottom. Hint: you can search online for an image. **(4 Marks)**
- b) Insert your name and birthday as a footer on all pages in italics, font 8. **(2 Marks)**
- c) Insert your father's name as water mark. It should appear red and diagonal. **(2 Marks)**
- d) At any appropriate place in the text, insert a footnote with a message that shows the purpose of a footnote. **(3 Marks)**
- e) Include some appropriate headings in your document throughout the three pages and create a table of contents at the beginning of the first page. **(4 Marks)**

Question Two (20 Marks)

a) Using the most appropriate application, come up with a presentation with details of all your first-year course units and the number of credit units. Describe what you like most in each of the course units and what you did not like. It should be a presentation that will not last more than 10 slides. **(5 Marks)**

- i. On the third slide, apply animation fade on the content field **(1 mark)**.
- ii. Add an automatic slides counter on each slide and add today's date on the left side of the footer of each slide **(1 mark)**.
- iii. Apply transition effect Split to all slides in the presentation **(1 mark)**.
- iv. Add the orange border to all the titles in the presentation **(1 mark)**
- v. Set the automatic slide changing for five seconds. Apply to all slides **(1mark)**.

b) Using the most appropriate application, come up with a diagram to represent the top management of Makerere University clearly indicating which office is at the top and those that they supervise. **(10 Marks)**

Question three (20 marks)

The following worksheet contains salaries and benefits of employees of a TV station.

	A	B	C	D	E	F	G
	NAME	POPULAR	SALARY\$	BONUS\$	GROSS\$	NET SALARY\$	
1							
2	Peter	YES	✔180				
3	Rose	YES	💰105				
4	Jolly	NO	💰130				
5	Kobusinge	NO	💰100				
6	Katelega	YES	💰120				
7	Musis	NO	✖70				
8	Ali	YES	✖80				
9	Hasifa	NO	💰140				
10	Abdul	YES	✖60				
11	COUNT	XXXX					
12							

- Using Microsoft excel, type out the table in the positions shown. **(4 marks)**
- Use conditional formatting to reproduce the formatting in Column C. Type the rules used in the 13th row. **(3 marks)**
- Using the VLOOKUP function display the popularity status of the second employee in the table. **(4marks)**
- Use the excel functions to obtain the values in column D based on the following rule:
If the TV personality is popular and earns more than \$120k per year they get a 30% bonus, if they are popular and earns less than \$120k per year they get a 40% bonus, else the column should have zero. **(6 marks)**
- The gross is bonus plus salary. Calculate the amount in E using a function **(2marks)**
- Each employee pays a Pay as your earn tax (PAYE) of 15% of the Gross salary, 10% of the Gross Salary is paid to NSSF. Calculate the net salary. **(2marks)**
- Using functions deduce the value in **B11** which is the total number of all TV personalities who are popular. **(3marks)**
- Create a column chart of employees' net salary, with names on the x-axis and salary on Y axis. **(2 mark)**

Question Four (20 marks)

You want to compete for a scholarship at Harvard University. You will be required to make an online presentation of yourself, your background and dreams and aspiration. You need to convince them that you need the scholarship and are worthy of it. Part of your preparation is to make the PowerPoint presentation that you will use.

Make at least a 5-slide power point presentation.

- The first slide should be the title slide with your face or any image that is characteristic of you.

- b) All slides should have a footer of your name and birthday.
- c) Give your slides suitable headings
- d) Last slide should have your contacts and thank your audience.

Marks will be awarded as follows:

- Creation of slides according to guidelines **(5 marks)**
- Appearance of slides **(5 marks)**
- Use of relevant PowerPoint features (transitions, animations, action buttons) **10 marks**

Hint: The motivation letter used for the Microsoft word question may help.

Question Five: (20 Marks)

(a) Create a table called Publisher having the following structure:

FieldName	DataType
PubID	Short text
pubName	Short text
Location	string

- i. Set the field PubID as the primary key **(1 mark)**
- ii. Set the Field Size field property of the field PubID to 5 **(1 mark)**.
- iii. Set the Field Size field property of the field PubName to 50 **(1 mark)**.
- iv. Set the caption property of the PubID field to Publisher ID **(1 mark)**.
- v. Set the caption property of the PubName field to Publisher's Name **(1 mark)**.

(b) Enter the following data in the publisher table **(3 marks)**

pubID	pubName	Location
MH	McGraw-Hill	UK
PH	Prentice Hall	UK
WI	Wiley	ASA
EL	Elsevier	USA
AW	Addison Wesley	UK
MP	MIT Press	LBA

(c) Create book table and author table with the following structure:

AuthorId	DataType
AuthorName	Short text
pubName	Short text
Location	string

Author table

BookID	DataType
AuthorCode	Short text
PubID	Shorttext
pubName	Short text

Location	string
Year	date

Book table

- i. Create a relationship between the AuthorID field in the Author table and the AuthorCode field in the Book table. Put a checkmark in the box labeled Enforce Referential Integrity. **(4 marks)**
 - ii. Create a relationship between the PubID field in the Publisher table and the PubID field in the Book table. Put a checkmark in the box labeled Enforce Referential Integrity **(4 marks)**
- (d) Use the Report Wizard to create a report having the following requirements:
- i. Select the LastName field from the Author table **(1 mark)**.
 - ii. Select the Title and Price fields from the Book table **(1 mark)**.
 - iii. Select the PubName field from the Publisher table **(1 mark)**
 - iv. Type Book List as the report's title **(1 mark)**

Question Six: (20 Marks)

- a) Mr. Musana a graphics designer wanted to install two operating systems on his office computer but is not sure whether it is possible. When he inquired from his colleagues, he was told that most users have one operating system on their computers. He did not give up his desire to have two operating systems on his computer and he sought for professional guidance. Assuming he has approached you for guidance on whether to have two operating systems or not. Write a brief essay (not more than 350 words) detailing your advice to Mr. Musana. **(10 marks)**.
- b) Kagoro computer services is a private company in the city center, they sell computers and conduct annual computer application training sessions to primary school teachers' country wide. The trainers had challenges delivering content on internet, search engines and the World Wide Web. Kagoro computer services is in the process of hiring a computer specialist who will train his clients on the internet, search engine and World Wide Web without challenges. They have now approached you as one of the renowned computer specialists, prepare an essay (not more than 500 words) showing the content you would use to conduct the training **(10 marks)**.