

# UGANDA MARTYRS UNIVERSITY

## SCHOOL OF ARTS AND SOCIAL SCIENCES

### DEPARTMENT OF DEVELOPMENT STUDIES

#### END OF SEMESTER FINAL ASSESSMENT

SEMESTER I, 2018/19

FIRST YEAR EXAMINATION FOR BACHELOR OF SCIENCE IN COMPUTER  
SCIENCE, INFORMATION TECHNOLOGY AND SCIENCE GENERAL

(Rubaga & Nkozi)

Introduction to Information Technology

Code.....

DATE: DECEMBER 2018

TIME:

DURATION: 3HRS

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**Instructions:**

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1. Carefully read through ALL the questions before attempting
2. This paper consists of Three sections, Section A, B and C
3. Attempt ALL Questions in Section A and C
4. Section C is Practical which has to be presented to the supervisor, Saved in a Zipped Folder of your names and submitted.
5. Choose ONE Question from section B
6. All Questions in Section B carry equal marks
7. No names should be written anywhere on the examination book.
8. Ensure that your Reg number is indicated on all pages of the examination answer booklet.
9. Ensure your work is clear and readable. Untidy work shall be penalized
10. Any type of examination Malpractice will lead to automatic disqualification
11. Do not write anything on the questions paper.

## SECTION A (40 Marks)

1. (a) With the help of clear examples, define the following terminologies; (2 Marks each)

- i. Web browser
- ii. Hardware
- iii. Software
- iv. Search engine
- v. Networking

(b) With clear examples where applicable, differentiate between the following ICT terminologies (2 Marks each)

- i. Input and output devices
- ii. RJ45 cables and VGA cables
- iii. Systems unit and CPU
- iv. Title bar and menu bar
- v. Data and Information

2. (a) Write the following technology Acronyms in full as interpreted in the global village of Information technology (1 Marks each);

- i. RAM
- ii. CPU
- iii. WWW
- iv. UPS
- v. ICT

(b) As students of BSc. IT, BSCS, Science General and any other related course of Umu offering introduction to IT, list down two(2) internet service providers operating in East Africa that you can recommend any company of your choice to partner with. Give one reason to support your answers. (4 Marks)

(c) If the smallest unit of data that can be measured in computer memory is a bit, 8Bits makes up 1Byte, 1000Bytes=1KiloByte, 1000KiloBytes=1MegaBytes and 1000Megabytes=1GigaByte.

NOTE: A normal CD=700Mbs, a VCD=700Mbs and a DVD=4.7GBs, how many CDs does a company need to store the same amount of data that can fit on 2 DVDs? Show the working. (6 Marks)

(c) List down 5 factors to consider before buying a printer for any company (5 Marks)



## SECTION B (Choose One question)

1. a) With examples define the term computer (2 Marks)  
b) Computers are believed to have both merits and demerits in tasks execution of most companies. Give five (5) of each respectively. (10 Marks)  
c) What are the four major factors that you can consider before buying computers for home or company use? (4 Marks)  
d) With examples distinguish between system software and application software (2 Marks)  
e) Explain four (4) major functions of an operating system (4 Marks)  
f) With examples, differentiate between data and information as applied in the ICT world (3 Marks)

2. a) Match the table below; (5 Marks)

1	Operating system	Microsoft Edge
2	Utility software	Flash disc
3	Ubuntu	Google
4	Workbook	Anti virus
5	Storage device	Software developer
6	Booting	Computer manufacturer
7	Web browser	Open source software
8	Search engine	Processing of starting a computer
9	Microsoft	Collection of worksheets
10	Dell	Windows

- b) Differentiate between cut-paste and copy-paste functions as used in Microsoft applications (3 Marks)
- C) Identify five (5) areas where computers are used and clearly indicate how they are used to accomplish data input, process, storage and output of data and information (5 Marks)
- d) Briefly explain any five (5) computer generations taking note of the respective technologies used in each generation (5 Marks)

e) List down four major factors that you can consider before buying a printer for company use (2 Marks)

f) Give practical steps of performing the following in Microsoft office applications; (5 Marks)

- i. Saving a document with a password
- ii. Converting a document to PDF

3. a) Mention 3 components that are found inside a systems unit and give one function for each (6 Marks)

b) Write down the manufacturers/Vendors of the following; (5 Marks)

ITEM	MANUFACTURER/VENDOR
Windows	
Ubuntu	
Android	
Techno	
Whatsapp	

C) Differentiate between the following; (2 Marks each)

- i. SATA and IDE Buses
- ii. Warm booting and cold booting
- iii. Reboot and Hibernate

d) Give the use North Bridge and south bridge during the functionality of the computer (3 marks)

e) Briefly explain any five network topologies that you know (5 Marks)



### SECTION C PRACTICAL (Compulsory) 1 ½ Hours

Create a folder named "Your credentials" and save both the presentation and spreadsheet files,

1. Make a well-designed 5-slide presentation about any topic in ICT e.g Hardware components. (2 Marks)
  - The presentation should be well formatted with any theme of your choice, relevant graphics and pictures. (2 Marks)
  - Make good use of animations and slide transition with auto play of the slides every after 2 seconds (2 Marks)
  - Each slide should have a slide number, fixed date (2 Marks)
  - Remember to include your programme i.e BSc.IT, names, Registration and Registration number as well as the topic on the first slide. (2 Marks)
2. A Payroll consists of Basic Pay, Allowances, Gross Salary, Deductions and Net Salary. The Allowances are 23% of the Basic Pay while the Deductions are 12% of the Gross Salary.

	A	B	C	D	E	F
1	Stationery Supplies Ltd					
2						
3	Name	Basic Pay	Allowances	Gross Salary	Deductions	Net Salary
4	Kizito	500.000				
5	Devine	700.000				
6	Agatha	100.000				
7	Niwahurira	1,000,000				.
8	Kenvuma	350.000				.
9	Okello	750.000				.
10	Totals					

- a) Enter the above data in a sheet and rename it (Your Names) (3 Mark)
- b) Calculate the Gross Salary of all the salespersons if allowance=15% of the basic salary (5 Marks)
- c) Format the worksheet as follows:  
Put a **double border** round the whole table and a **single line border** inside the table. (2 Marks)
- d) Save the worksheet as Stationery Analysis with password "#!Umu2018" (Your password should not have quotes "") (2 Marks)
- e) Make sure that no one can edit your work without your authorization. (2 Marks)
- f) Using autofill option, to fill Column G with Financial year "2018" from G4-G1000. (3 Marks)

- g) Use Auto increment feature to populate column **H** with **ID No.** from **H4-H1000** using only even Numbers (3 Marks)
- h) Represent Sales people's Net salary on a **line graph** with title "Your First Name Co. Ltd eg Samuel Co. Ltd (5 Marks)

*END*