

MBARARA ARMY BAORDING SECONDARY SCHOOL

S.6. PRE-REGISTRATION EXAMINATIONS 2017

SUB-ICT PAPER ONE [850/1]

TIME: 2HRS

Instructions: Attempt all questions in this paper and each question carries five marks.

1. (a) What is a computer laboratory? [01mark]
(b) Distinguish (by definition) between physical and Data securities as used in laboratories.(02)
(c) State three (3) tools and explain their roles/functions in the computer laboratory.(03)
2. (a) What is computer literacy? (01)
(b) Explain the importance of being computer literate. (02)
(c) Distinguish between a computer and a computer system. (02)
3. (a) Give reasons why a computing system can be restarted. (2)
(b) Give the difference between the following: (03)
 - Log off and Log in
 - Reset and Shut Down
 - Sleep and Hibernation
4. (a) Define the term computer hardware. (01)
(b) State and explain the two categories of computer hardware. (02)
(c) State and explain two roles of **System Unit Box** to a computer. (02)
5. (a) State and explain the three major parts of the CPU. (03)
(b) State two (2) components that affect the speed of a computing system. (02)
6. (a) Define the following as used in digital storage. (03)
 - Bit
 - Byte
 - Nibble
(b) How many songs will Peter store on a flash stick labeled 4.2GB if each song is 512KB of size? (02)
7. State and explain the five components/elements of a data communication system. (05)
8. (a) What do you understand by the terms guided and unguided transmission? (02)
(b) Give three examples of guided and unguided transmission channels that you know.(3)
9. (a) What is cyber-crime? (01)
(b) State and explain four (4) cyber-crimes you know. (04)

10. Below is a capture of an email window. Study it carefully and answer the questions that follow:

TO:

CC:

BCC:

SUBJECT:

ATTACH REPLY FORWARD

SEND

1. State the purpose of the following:
 - a. Attach: (01)
 - b. To: (01)
 - c. Subject: (01)
2. What is CC in full? (01)
3. Give one **etiquette** an email user should display while planning to compose an email. (01)

11. Define the following terms as used in data transmission.

- a. Simplex Transmission
- b. Protocol
- c. Network
- d. Communication
Topology

12. (a) What do you understand by **cloud computing** and **green computing**? (02)

(b) What are the advantages of green computing today? (02)

(c) State one disadvantage of cloud computing. (01)

13. Study the spreadsheet bellow and answer the questions that follow:

	A	B	C	D	E	F	G	H
							AVERAGE	
1	SNames	Fname	Join	AVE1	AVE2	TOTAL		POSTION
2	Musa	Ibrahim		67	72	139	69.50	2
3	Jane	Kamwine	JaneKamv	72	71	143	71.50	3
4	Kato	Jose	KatoJose	74	91	165	####	4
5	Damalie	Ariyak		61	61	122	61.00	1
6								
7								
8								

- What is the active cell? (1)
- How can the user solve the G4 cell problem? (1)
- Write down the following formulae
 - In cell C3 (01)
 - In cell H2 (01)
- What is the procedure of having the word in G1 aligned that way shown? (01).

14. Define the following as used in DBMS:

- Database (1)
- Data type (1) and give two examples of a datatype in a (02)
- Primary key(1)

15. (a) What is a utility program? (01)

(b) State and explain four functional utility programs that you know. (04)

16. (a) What is an operating system? (01)

(b) Other than Windows operating system, state one example of an operating system.(01)

(c) State and explain two (2) functions played by an operating system. (02)

(d) Write **GUI** and **CLI** in full. (01)

17. Given the path below, determine the required. **G:/Documents/MYFILES/Nakayiwa/box.mp4.**

Find:

- a. Drive letter (01)
- b. File name (01)
- c. File Extension. (01)
- d. Folder Name. (01)
- e. State any one program that can be used to open the file above. (01)

18. Below are specifications for two different types of computers. Study them and answer the questions that follow:

	Computer A	Computer B
RAM	256KB	128MB
HARD DISK	700MB	20GB
SPEED	800MHZ	1GHZ
COMPUTER WORD	32-bit	64-bit
NETWORK CARD	NO	YES
VIDEO CARD	YES	YES
DVD WRITER	YES	NO

- a. Which computer is faster in processing? (01 Mark)
- b. Which computer has the highest amount of RAM? (01 Mark)
- c. Which computer is more likely to be connected to a LAN (01 Mark)
- d. Give your reason for the answer in (c) above (01 Mark)
- e. Which computer can write data on an optical media? (01mark)

19. Why is the back-end of a desktop PC having the following?

- a. Fans (01)
- b. Power Port (01)
- c. Ports (01)
- d. Expansion Slots (01)

20. Define the following as used in functional computing: (05)

- ICT
- IT
- Telecommunication
- Telecommuting
- GIGO

End
Good Luck