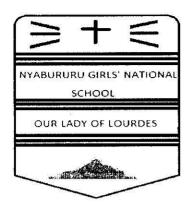
Name	Class	. No	Adm N	o Sign	*****
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FORM 3 COMPUTER STUDIES CAT 3 TERM 1 2016 TIME: 2 HOURS

Date done	· · · · · ·
Invigilator	
Date returned	
Date revised	
10.0000 P	

Instructions

- Write your name and admission number in the spaces provided above.
- This paper consists of two sections A and B.
- Answer ALL the questions in section A.
- Answer question 16 (compulsory) and any other three questions from section B.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAX. SCORE	CANDIDATE'S SCORE
A	1-15	15	
	16	15	
В	17	15	
	18	15	
	19	15	
10.11° - 11.00°	20	15	
	TOTAL SCORE	100	

Name	Class	No	Adm	No	Sign <u></u>
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SECTION A Answer all questions in this section.

1	(a) De	fine the following terms as used in data processing.	(4mks)
1.4	(i)	Data	
	(ii)	Information	
	(iii)	Data processing	
	(iv)	Data processing cycle	
	(b) W	hat is the difference between data input and data output?	(2mks)
2.	Expla	in any four ways in which threats to data integrity can be minimized.	(4mks)
3	. Wha	is a computer file?	(2mks)
4	. State	the advantages of computerized filing system.	(4mks)

Name		Class No Adm No Sią	gn
5.	Define	the following terms:-	(2mks)
	(i)	Keyboard	
	(ii)	Mouse	
6.	Discus	s four common mouse operations.	(2mks)
7	/ \ 1171		
/.	(a) Wh	at is booting?	(1mk)
	(b) Diff	Covertiete hetuveen eeld heeting on decrease heeting	
	(0) D III	Ferentiate between cold booting and warm booting.	(2mks)
8.	Explain	the term system unit and name some of the components found on it.	(4mks)
		recaution would you take in the computer room in case:	(2mks)
	(a) The	humidity falls below normal for prolonged period due to weather change.	
	(b) Usei	es complain of backaches after long periods of using the computer.	

Name Class No Adm No	. Sign
10. Define the following terms:-	(3mks)
(a) Hardwares	
(b) Softwares	
(c) Live wares	
11. State two differences between flexible keyboard and ergonomic keyboard.	(2mks)
12. Discuss three types of mouse.	(3mks)
13. State the type of scanner that is used to perform the following functions.(a) Analyses responses to structured questionnaires	(3mks)
(b) Read barcode in products	
(c) Used to read cheques in banks	
14. Define the term digitizer.	(1mk)
15. State two functions of a joystick.	(2mks)

lame	Class No	Adm No	Sign
SECTION B Answer question 16 (compulsory) and any other 3 questions form this section.			
16. Discuss errors in data processing.			(15mks)
17. (a) Differentiate between logical files	from physical file	es.	(3mks)
(b) Explain six types of computer pro	cessing files.		(12mks)

Name	Class	No Adm No Si	gn
	ame three parts that make up a central p		(3mks)
(b) (ive four differences between Read Only	Memory and Random Access Mer	nory. (4mks)
(c) I (i)	Define the following terms:- Buffer		(3mks)
(ii)	Cache		
(iii)	Registers		
(d)	i) Define the term bus.		(2mks)
(ii) Explain three types of buses found in	the central processing unit.	(3mks)
19. (a)	Define an output device.		(2mks)

ame No Adm No Class No Adm No	Sign
(b) State the difference between softcopy and hardcopy output devices.	(2mks)
(c) Discuss the three types of monitors.	(6mks)
(d) Differentiate between impact printers and non-impact printers.	(4mks)
(e) What is a plotter?	(1mk)
20. (a) Define the term secondary storage device.	(2mks)
(b) Distinguish between the following terms:-(i) Octal numbers	
(ii) Hexadecimal numbers	
(iii) Decimal numbers	
(iv) Binary numbers	

Name	Class No Adm No	Sign
	tate the difference between softcopy and hardcopy output devices.	(2mks)
(c) D	iscuss the three types of monitors.	(6mks)
(d) Di	ifferentiate between impact printers and non-impact printers.	(4mks)
(e) Wł	hat is a plotter?	(1mk)
20. (a) Des	fine the term secondary storage device.	(2mks)
(b) Dis	stinguish between the following terms:-	
(i)	Octal numbers	
(ii)	Hexadecimal numbers	
(iii)	Decimal numbers	
(iv)	Binary numbers	

(c) Convert the following binary numbers to decimals.

(6mks)

- 1012 (i)
- (ii) 1101_{2}
- (iii) 111001_{2}
- (d) Convert 6410 to its binary equivalent.

(3mks)