CHUKA



FIRST YEAR EXAMINATION FOR THE AWARD OF POSTGRADUATE **DIPLOMA IN EDUCATION**

UNIVERSITY EXAMINATIONS

COSC 701: COMPUTER USE AND APPLICATION IN EDUCATION

STREAMS: PGDE

TIME: 3 HOURS

11.30 A.M. - 2.30 P.M

DAY/DATE: WEDNESDAY 31/03/2021

INSTRUCTIONS

- Answer Question **ONE** and any other **TWO** questions.
- Marks are awarded for clear and concise answers.
- Note that only Question ONE (Section A) and the first TWO attempted questions in section B will be marked.

SECTION A (COMPULSORY)

QUESTION ONE (30 MARKS)

(a)	While giving examples describe what types of data is acceptable in a spreadsheet		
	cell	[6 Marks]	
(b)	List FOUR types of secondary memory storage	[4 marks]	
(c)	Differentiate between a laptop computer and a tablet	[2 marks]	
(d)	While giving examples in each differentiate between a spreadsheet programme		
	and a word processor	[4 marks]	
(e)	Explain the role played by the following components within computer hardware;		
	(i) Input devices	[2 Marks]	
	(ii) C.P.U	[2 marks]	

(f)	Local area networks (LAN) are important resources when deployed in an						
	(i) Give THREE reasons why a school may want to set up a L.A.N						
			[3 marks]				
	(ii)	Describe TWO methods which an institution can employ to con	nnect to the				
		internet	[4 marks]				
(g)	Briefly	Briefly discuss THREE advantages that a school may benefit from after they					
	develo	p their own web portal	[3 marks]				
SECTION B: ANSWER ANY TWO QUESTIONS FROM THIS SECTION							
QUESTION TWO (15 MARKS)							
(a)	Briefly	describe what a database is	[2 Marks]				
(b)	Briefly	describe the role of the following objects of access database:					
	(i)	Table	[2 Marks]				
	(ii)	Form	[2 Marks]				
	(iii)	Querry	[2 Marks]				
	(iv)	Report	[2 Marks]				
(c)	Descri	be the role of a database management System clearly stating TH	REE key				

functionalities it supports

QUESTION THREE (15 MARKS)

(a) With a well labelled diagram, discuss the various components that make up the computer system [9 Marks]
(b) Computer Systems are exposed to a number of threats that can compromise the data held in them. Describe any THREE threats to computer Systems and possible countermeasures to each [6 Marks]

[5 Marks]

QUESTION FOUR (15 MARKS)

A word processor is an application program for manipulating characters, words and sentences to make them attractive and presentable. It incorporates very powerful formatting features in writing reports.

- (a) Give TWO features of Microsoft word and TWO features of Microsoft excel that are very useful to an English teacher in secondary school [3 Marks]
- (b) What is the relevance of the following word processing features during report writing;

(i)	Tables	[3 Marks]
(ii)	Table of contents	[3 Marks]
(iii)	Bullets and numbering	[3 Marks]
(iv)	Page numbering	[3 Marks]

QUESTION FIVE (15 MARKS)

- (a) You have been invited to present a paper on "Role of educational institutions in vision 2030". You are supposed to prepare a PowerPoint presentation. Briefly discuss FIVE characteristics of a good PowerPoint presentation that you would factor as you prepare this presentation
- (b) Recently, a number of learning institutions have abandoned use of blackboard and chalk and in place adopted use of PowerPoint presentations or a combination of both in delivering content to the learners. Justify this adoption [5 marks]
- (c) One important application of internet in education sector is elearning.

(i)	Briefly describe what elearning is	[2 Marks]
(ii)	Give THREE advantages of elearning over classroom interaction between	
	a learner and a teacher	[3 Marks]
