### THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL CERTIFICATE OF SECONDARY EDUCATION EXAMINATION

036/1

# INFORMATION AND COMPUTER STUDIES 1

(Lor Both School and Private Candidates)

Time: 3 Hours

Tuesday, 19th November 2013 p.m.

#### Instructions

- This paper consists of sections A, B and C
- 2 Answer all questions in sections A and B and two (2) questions from section C.
- Calculators and Celiular phones are not allowed in the examination room.
- 4 Write your Examination Number on every page of your answer booklet(s).



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## SECTION A (30 Marks)

### Answer all questions in this section.

		h of the following items (i) - d and write its letter beside the				amon	the alternatives
(i)	Α	Intabase file that contains a sir Single file Sorting file Double file	ngle da	ta mi D E	ble is known as Flat file Data file		
(ii)	Th A B	e type of Printers which use a Non-impact Impact	strikin C D		ermal	haraete E	rs is Laser
(iii)	^	e most appropriate type of ind Full indentation Hanging indentation Left indentation	entatio	n for D E	paragraphing discuments Last indentation Right indentation	in wor	d- processing o
(iv)	A	formula required to find the seringe of F7:H20 must be write SUMIF(F7:H20,">50") = SUMIF(F7:H20,">50") = SUMIF(F7:H20,">50")	am of iten as		those cells that have a vi -SUM(F7:H20,7-50*) -SUM(F7:H20,-50)	alue gro	eater than 50 in
(v)	A.	hen integrating Word and Exce Server Source		d is u Clie No	ns.	t	Donnain
(vii)	A H C W A B	hich one of the following print his jet printer Dot matrix printer		Đ	Printing Short period of tone	i-lung⁴	
(vnt)	0	The state of the s	is NOI	the D	option of database security Introducing privacy poli Password encryption		
- (m)	A B	Large data		n t:	Continuous ifata Small data		

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Desktop publishing software can be classified into two broad categories which are

- A. Graphic-based and Layout-based
- B | Layout-based and Design-based
- Corruption-based and Format based
- D. Format-based and design-based
- Uraphic based and design-based

Match the tollowing features of LAN topology in List A to their corresponding type of Network topology in List B by writing the letter of the correct option beside the item number. Each option can be used more than once

	List A		List B
ω	Deals with the way data passes from one device to the next device of the network.	A	Bus topology
14.00	Apr. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	В	Ring topology
(11)	Computers listen to the network media and can send data when none of the others is sending.	C	Token ring topology
in)	Refers to the arrangement of components on the network.	D	Ethernet topology
		E	Mesh topology
tv')	Consists typically of personal computers each connected to the central computer or switch	ŕ	Star topology
15.1	All devices are connected to a central cable called backbone	G	Physical topology
		11	Logical topology
FIT	Consists of one continuous length of cable (frunk) and a terminating resistor at each end.	,t	Internet topology
ynt	A circular loop of point to point links	J	Network topology
viiri	Each network device has a dedicated point to point link to the central linb	K	Hub topology
(10.)	Every device connected to all other devices		
200	All nodes have equal access to the trunk		

*	1. In t	he following items, write (T) for a True statement and (F) for a l'alse statement.	Ž		
	(i)		•		
	198	Horns, Journal and whistle are traditional ways of disseminating information			
	(ii)	Fifth generation computers are characterized by artificial intelligence.			
	(iii)	UPS is the abbreviation of Universal Primary Source of power.			
	(iv)	Windows protection error is displayed during startup after the GUI is loaded.			
	(v)	Webpage can be created only by using special HTML program.			
	(vi)	ICT destroy culture in developing countries because it helps the people to send E-mail regularly.			
	(vii)	Monitors, LCD projector and speakers are examples of softcopy output devices			
	(yni)	Data integrity is measured in terms of accuracy, timeless and relevance of data			
	(ix)	Supercomputers are commonly used in training and learning institutions.			
	(x)	Scripting languages need a compiler to develop or add functionalities on web pa	age		
		SECTION B (50 Marks)			
		Answer all questions in this section.			
	4 (a)	and the term search chamic	(1 mark)		
	(4)	Describe the top two internet search engines	(4 marks)		
		Give four reasons why email is more preferred than normal letters.	(4 marks)		
	5 (a)	What is an operating system? Give four factors to consider when choosing an op-			
	(b)	System for a computer.  Outline the major three functions of an operating system	(3 marks)		
	(c)	Explain why a computer requires a modern to transmit data across distant network	(3 marks)		
			(2 marks)		
•	6 (a)	State any four types of word processor applications	(2 marks)		
		Assume it is sports day at your school where there are four classes competing has three teams. Junior Middle and Sensor	Lande share		
		. (i) Give an illustration on how the spreadsheet can be used to create in elec-	Traffic with		
		sheet for the teams	th marks)		
		<ul> <li>(ii) Describe how the spreadsheer can be used to find the total goals of each tear</li> </ul>			
			(2 marks)		

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eplant with examples how the desktop publishing software gives a person designing

- tat, kiraphie design
- the Page Liverit design
- (c) Printing

(9 marks)

- (a) Explain the term computer crime in relation to computer usage (1 mark)
  - (b) Describe three ways of preventing the Information and Communication Technology crimes.

(3 marks)

(c) Describe three major characteristics of the third generation computers.

(3 marks)

4 (a) What is a Database Management System (DBMS)<sup>4</sup>

(I mark)

(b) A property owner uses a database to store data about houses he sells. The table below shows part of the database.

Reference Number	Air Conditioner	Garden	Number of Bedroom	Price	
N1230	Y	N.	3	\$1,200.00	
N1135	N N	Y	4	\$1,500.00	
N2452	N	Y	2	\$670.00	
N567	Y	1	1	\$1,500,00	
V1441	\ \	Y	2	SSOUTH	

The records shown in the table above are to be sorted in ascending order of price. What will be the reference number of the first record in the database after it has been sorted?

(I mark)

- Assume the tecords shown above have been sorted in descending order of reference mumber. What wall be the foom status, price and the number of bedroom of the last record.

  (1.5 mark)
- (in) Give the names of the fields that contain Boolean data type.

(1 mark)

(iv) Identify the field type of the reference number field

(I mark)

(v) Give two validation checks that could be carried out on the reference number field

(I mark)

(vi) Which field should be the primary key of the database table?

(0.5 mark)

#### SECTION C (20 Marks)

Answer two (2) questions in flus section

- Describe two advantages and two disadvantages of the increasing use of computer technology.
   (10 marks)
- Lyplan four key elements of an effective Website

(10 marks)

12 Why electronic word processors are more preferred than manual typewriters? Describe by giving four reasons.
(10 marks)

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