

Name:	Index no
School:	Candidate's sign
	Surranus d'arg
Date:	
451/1	
COMPUTER STUDIES	
PAPER 1 (THEORY)	
TIME 2 ½ HOURS.	

# TRIAL ONE EVALUATION TEST

451/1 COMPUTER STUDIES PAPER 1

#### **INSTRUCTION TO CANDIDATES**

- Write your name and index number in the spaces provided above
- This paper consists of <u>Two</u> sections; A and B.
- Answer <u>ALL</u> questions in section A.
- .Answer question 16(compulsory) and any other THREE questions from section B.
- All answers should be written in the spaces provided on the question paper
- This paper consists of 12 printed pages. Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing

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SECTION	QUESTIONS	CANDIDATES SCORE
A	1-15	
	16	
	17	
	18	
В	19	
	20	
	TOTAL SCORE	



#### SECTION A

1.		Define the following terms as used in word processing. (	3 marks)
ć	a)	word wrap	
ŀ	b)		
•	•••••		
	c)	Drop cap	
•			
2.		State three advantages of using computers in performing day to day's tas	ks. (3marks)
3.		Wanja operates a bookshop in a town. Lately he is finding the task of mar transactions manually overwhelming.	naging daily
i.		Identify the type of management information system that Wanja should a	
•			
ii.			2 marks)
•			
4.		State three hardware considerations that need made before installing an	
			(3marks)



	Before the end of every month an electricity service provider sends out field officers to take umer meter readings. The data collected by the officers is then keyed into the computer. The m then generates utility bills which are printed and sent to the consumers.	
i. 	State two transcription errors that are likely to occur during meter reading or input (2 marks)	) 
ii. 	State two ways such errors can be avoided (1 mark)	
6	State three editing tools that are available in most standard word processing software (3 mar	ks)
 7.	Information security should be enforced both physically and logically.	
/. l. 	Differentiate between the two security mechanisms (2 marks)	
 II. 	State two physical security techniques (2 marks)	
8	Explain three types of system buses found on the computer system board (3 marks)	
9.	Explain three types of system buses found on the computer system board (3 marks)	•••



10.	i	Highlight the dangers assocition.		(1marks)	
	ii	i. Purchasing software be	efore assessing requirements	(1marks)	
	iii	i. Using foreign flash disk	s on the computer.	(1marks)	
 11.		Differentiate between a filt	er and a query in a database	(1 marks)	
12.		e payroll system is both a fin	ancial system and a human r	esources system. Explain t (2marks)	his statement
13.	a)		he following spreadsheet op (1mark)		
	b)	Data validation	(1 mark)		
14.		List two ways in which com	puter technology can be use	d in law enforcement (2	L marks)



15.	In reference to aviation technology, state two advantages of using simulation in training pilots
	(2mks)
	SECTION B (60 MARKS)  Answer question 16(compulsory) and any other THREE questions from this section.
1	6. (a) State the stage of program development in which:
-	(i) A flowchart would be drawn
	(ii)The programmer would check whether the program does as required
	(iii) The user guide would be written
	(iv) The requirements specifications would be written



b). A programmer uses program design tools to design a program that can list the odd numbers between		
0 and 100.		
b). (i). Write a pseudo code for this problem.	(5mks)	
ii). Draw a flow chart for the pseudo code in 16 b) (i) above.	(6mks)	



(a)	(i)State one difference between system and program flowchart. (2 marks)	
		••••••••••



(ii) Study the follow flowchart then answer the questions that flow.

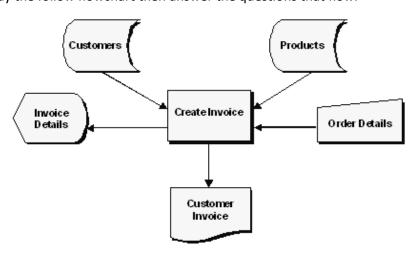


Figure 1 Flowchart2

- I) Identify the type of flowchart that is represented by the flowchart in figure 2
  - II) Name all the flowchart symbols used in this flowchart.

17.		Define the . Name and Ex		ways.		(5mks)			
••••••									
•••••	••••••	•••••		•••••					
•••••	••••••								
		•••••				••••••	••••••		•••••
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(iii)	Explain <b>two</b> factors you would consider before enrolling for an ICT coul	rse in a (2mks)
(c).	Outline the seven open systems interconnection (OSI ) reference model  Layers in their order in network. (4 mks)	
	Layers in their order in network. (4 mks)	
(d)	Differentiate the function SUM and SUMIF as used in spreadsheet.	2mks
(e)	State <b>two</b> advantages of using fiber optic cables.	(2mks)



 (d)	State one difference between system flowchart and program flowchart. (2 marks)
Any	y two from: ( 2mks)
(c)	After a system is implemented, it is evaluated. Give <b>two</b> reasons why a system should be evaluated.
	( 2 marks)
	(ii) Write down <b>two</b> reasons why one of the methods you gave in (b) (i) is better than the other.
	Described Any two from:
 (b)	Once the whole system has been designed it will need to be implemented.  (i) Describe <b>two</b> methods of implementation that could be used. 2mks
	Describe <b>four</b> methods he could use to collect this information. 4mks
	A systems analyst has been asked by a doctor to computerize the records she keeps about her ients. He must first of all collect information about the existing system.



19.	(a)	Describe each of the following data processing methods and give an example of
		Where they are used. (6mks)
C	Online pro	ocessing
•		
E	Batch prod	cessing –
F	Real-time	_
•		
	(b)	differentiate between the following: (6mks
		(i) Logical file and physical file –
ii	i). Maste	er file and back-up file –

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(iii) Random and indexed sequential file organization methods.



to other number systems other than binary. (1mks)	
(3mks)  . 20. (a) Give <b>one</b> reason why data and information in a computer system needs to be to other number systems other than binary.  (1mks)	
.  20. (a) Give <b>one</b> reason why data and information in a computer system needs to be to other number systems other than binary.  (1mks)	
to other number systems other than binary. (1mks)	
to other number systems other than binary. (1mks)	converted
(b) Explain <b>one</b> reason for use of binary in digital technology. (1mks)	
(c) ii). Using twos complement, workout: 15 <sub>10</sub> - 8 <sub>10</sub> in binary form. (4mks	



 (d)		coding system convert 7			(3mks)
•••					
(e)	Differentiat	te Database administrat	or and web administra	tor.	(2mks)
	(f) (i)	Define the term ac	ccreditation as used in	education. 2mks	

