MOMALICHE JOINT EXAM TERM ONE 2021

45	1/	1

COMPUTER STUDIES

FORM FOUR

TERM 1 2021

TIME: 2¹/₂ HOURS

NAME	ADM NO:	STRM:
1 1/ \ V 	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 🔾 \ \ \ \

INSTRUCTIONS TO CANDIDATES

- 1. Write your Name, Admission number and Stream in the spaces provided above
- 2. Answer all questions in section A
- 3. In section B, answer question 16(compulsory) and any other three questions

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	CANDIDATE'S SCORE			
A	1-15				
В	16				
	17				
	18				
	19				
	20				
TOTAL SCORE					

SECTION A (40 MARKS)

1.	Give imp	portance of having the following in computer laboratory	(3mks)
	(i)	Standard furniture in the laboratory.	
	(ii)	Antiglare screen	
	(iii)	UPS	
2.	Distingui	ish between ROM and RAM	(2mks)
3.	Explain t	he following computer crimes	(2mks)
	(i)	Fraud	
	(ii)	Alteration	
4.	(a)Explai	n the following statements	
	(i)	Firewalls	(1mk)
	(ii)	Data encryption	(1mk)

5.	Differe	ntiate between the following terms as used in word processing	(3mks)
	(a)	Drop Cap and Case	
	(b)	Superscript and subscript	
	(c)	Indent and tab	
6.		chool librarian asked you for an expert advice on the printer to use. Since between impact and non-impact printers and TWO examples of	
	Wh	at would be your advice?	
	Dif	ference.	(2mk)
	Exa	imples	
7.	Descri	be the following terms as used in internet	
	(a)	Webpage	(1mk)
	(b)	Blog	(1mk)
	(c)	Hyperlinks	(1mk)
	(d)	Web portal	(1mk)

8.	(a) Gi 	ve four advantages of DTP over a word processor	(2mks)
		Differentiate between the following Kerning and tracking	(2mk)
	 (ii))Margins and column guides	(2mks)
9.	 Expla	in the term simulation	(1mk)
10.	Differ	entiate between baseband and broadband signal as used in networking	(2mks)
	(a) Baseband signal	
	(b) Broadband signal	
11.	. Expla	in how the operating system controls the following resources	(3mks)

ks)
e such as s)
(2

.....

SECTION B (60 Marks)

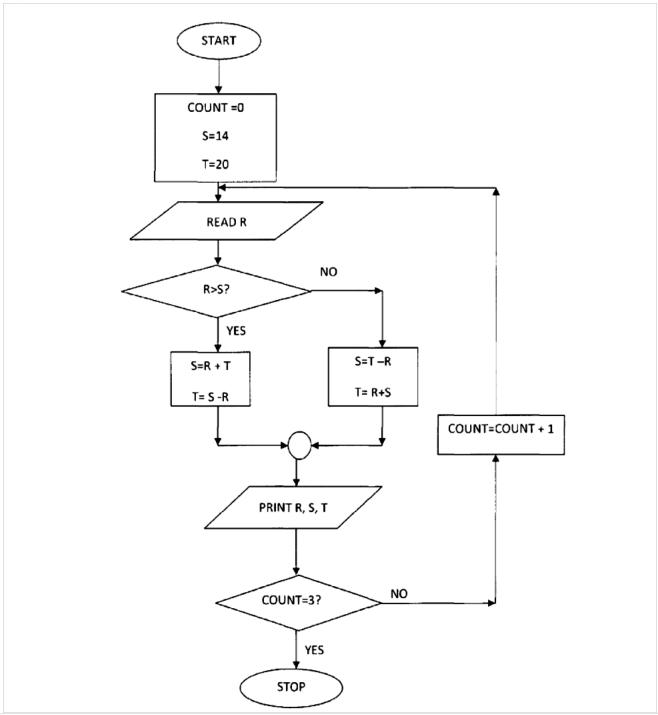
Answer question 16 (Compulsory) and any other three questions

SECTION B (60 MARKS)

Answer question 16 and any other three questions.

16. (a)	State any three differences between an Interpreter and a Complier	(3mks)
	(b)State the stage of program development in which (i) A flowchart would be drawn.	(2mks)
	(ii) The programmer would check whether the program does as required	
	(iii)User guide would be written	
	(iv)The requirement specification would be written	

(c)Study the flowchart below and answer the questions that follow



(i)	What would be the output if the following values were input 40,20,15,1	(4mks)
(ii)	Write a pseudo code for the flowchart in question 16c)	(6mks)
a) Id	lentify the following flow chart symbols	(2 marks)

b)	State and explain three circumstances when observation method may be preferred during
	data collection in system development
	(6marks)
••••	
••••	
••••	
c)	State two ways of verifying data being entered into a computer system for processing
	(2 marks)
••••	
۹,	A computer upor entered the number E 66004 and it displayed E 66. He entered the number
u)	A computer user entered the number 5.66894 and it displayed 5.66, He entered the number again for the second time and it displayed 5.67. State the types of errors that occurred in
	both instances.
	(2 marks)
e)	State three specifications that should be set in the print dialog box when printing a document
	(3 marks)
••••	
••••	
••••	
••••	

(4

18.a) Explain two ways in which hardware failure is a threat to data security

marks)							
	••••••						
b) A retainspreadsh		·	dsheet progran				
	1	A Items	B Cost price	Selling	D Profit	E Items sold	F Total Profit
	2	Sugar	305	Price 350	45	32	1440
	3	Bread	100	120	20	45	900
	4	Flour	200	220	20	32	640
	5	Rice	107	130	23	89	2047

i)	Which row contains labels only? (1 mark)	
ii) 	Write the formula that has been entered in: Cell F2	(2 marks)
	State two disadvantages of the flat file database model arks)	(2

	d) State two reasons why table relationships are created during database design marks)	(2
	e principal of Molo Academy Boys keeps the following student details in a database: Namess, Town, Date of birth, Marks scored, Fees paid	e,
(1 ma	i) Name the most suitable primary key in the database. Give a reason for your answer	
		,
	ii) For each item in the student details table above, indicate the most appropriate data be used in the database.	type to (3
	marks)	
		
19	9.(a) What is Virtual reality	(2mks)
	(b)Explain the following interactive equipment used in virtual reality	(2mks)

(i) Head gear
(ii)Body suit
(c)(i) What is Artificial Intelligence? (2mks)
(ii)Explain three components of an experts system (6mks)
(d)Most computerized security systems make use of Biometric analysis ,name three physica features of human beings that can be considered in this analysis (3mks)
20. a) A computer technician found it necessary to disable a firewall when working on a computer system connected to a computer network. State two reasons that may have necessitated disabling of the firewall

(2 marks)

b) S t	tate two differences between infrared transmission and Bluetooth transmis	sion (2
marl	ks)	
••••••		
••••••		
••••••		
The	diagram below shows four common network topologies A, B, C and D.	
	A B B	
	Server	
i)	Name the network topologies labeled A, B, C and D.	(4marks)
	A	
	B	
	C	
	D	
ii)	State the role of the device labeled "server" in topology A mark)	(1

	iii)	State two problems associated with network topology B.	(2
marks	S) 		
(2maı		plain why the single mode fiber optic cable is preferred for long distance transmission	
	••••••		••••
			•••
(2maı	,	ate two ways a networking operating system provides data security in a network	
ZIIIdi			••••
		END SUCCESS.	
		0000200.	