

ZERAKI ACHIEVERS EXAMINATION 13.0

Kenya Certificate of Secondary Education FORM FOUR EXAMINATION -2024

CODE451/1 SUBJECT: COMPUTER STUDIES

Paper 1

JULY- TIME $2\frac{1}{2}$ Hours

Name:	• • • • • • • • • • • • • • • • • • • •	Adm No: .	•••••
Class:	Candidate's Signature:	Date:	/07/2024.

INSTRUCTION TO CANDIDATES

- Write your name and admission number in the spaces provided above
- This paper consists of <u>Two</u> sections **A** and **B**
- Answer ALL questions in section A
- Answer question 16 and any other **THREE** questions from section **B**
- All answers should be written in the spaces provided on the question paper

FOR EXAMINER'S USE ONLY

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



SECTION A: 40 MARKS Answer all the questions in this Section

1. Give three reasons to justify why portable computers are gaining popularity in the curr	(3marks)
2. State three input devices used in a smartphone.	(3mark)
3. A vehicle assembly company has introduced robots to replace the human workforce. I effects this would have on the work force.	(3marks)
4. Explain how a library system facilitates smooth running of library services.	(2marks)



5. Give three possible reasons for extinction of Dot Matrix printers in the market today.	
6. State two ways of manipulating text in a printable area of a publication.	(2marks)
	••••••
7. James is pursuing Bachelors of Computer Science at University of Yogona in China, he to graduate at the end of this year and then come back to Kenya to seek for employment three career opportunities in the field of ICT that James may take up after graduation.	
	(3marks)
	••••••
8. State three factors to consider when selecting a transmission media.	(3marks)
	•••••
9. Describe two way of resolving hanging in a computer.	(2marks)
	•••••



and therefore data integrity must be maintained all the times. Describe three ways	s employed by this
company to minimize threats to its data.	(3marks)
11. Describe the purposes of a frame as used in DTP	(2marks)
12. Use a diagram to describe the following network topologies	
(a) Hybrid	(2marks)
	•••••
	/2
(b) Mesh	(2marks)
	/2
13. State two uses of the task manager	(2marks)



14.		mat check		used in data pro	ocessing.	(2marks)
	(ii) Pres	sence digit				
•••••	•••••			 		
15.	their peer	rs in Canada, U	S and UK.	·	udents to collabor	(3marks)



SECTION B: 60 MARKS

Answer question number 16 any other three questions in this section

(i) Name two design tools that a programmer require when carrying out dry running.	(2marks)
(ii) Mention four characteristics of a Machine language.	(4marks)
(iii) What is internal documentation with regard to programming?	(2marks)
(iv) A company's workers travel to work either by public or by private mean. All work a travel allowance of Kshs.200, but those using private means are paid an additional Draw a flowchart that will determine workers travel allowance.	-



17. (i)	State the stage in systems development when the activities listed below are performed (a) The system analyst perform system audit	Bmarks)
•••••	(b) Modification of data file formats	
•••••	(c) Writing codes for the system	
(ii	i) State two reasons to justify why users must be trained thoroughly during system implem	entation (2marks)
(ii	ii)Briefly describe the following types of system maintenances	(2marks)
	(b) Perfective	2marks)
(iv	v) Give three reasons why Word processor is one of the most common application of many computer user.	(3marks)



(v) State three ways of creating a table in Ms word.	(3marks)
	•••••
18.	
(i) Convert	
(a) 376 ₈ to Hexadecimal	(2marks)
	••••••
	••••••
(b) $34\frac{12}{32}$ base 10 to Binary	(2marks)
32	
	••••••
(ii) Perform the following binary arithmetic giving the answer in decimal notation. (c) 10110.0110 ₂ +0101.01 ₂	(2marks)
(0) 10110101102 + 01011012	,
	•••••
(d) 1001.1001 ₂ - 111.100 ₂	(2marks)



(iii) Study the spreadsheet below and use it to answer questions that follow.

	A	В	С	D	Е	F	G	Н
1	Name of	Year of	Fuel	State	No	Price	Total	Remark
	the car	Manufacture	Type		Sold			
2	Mazda	2017	Diesel	New	20	2000000		
3	Honda CRV	2018	Diesel	Used	34	1800000		
4	Lexus	2015	Petrol	Used	28	3700000		
5	Toyota	2016	Diesel	New	10	1000000		
	Premio							
6	Nissan	2017	Petrol	New	18	1500000		
	Xtrail							
7	Volkswagen	2019	Diesel	Used	34	2500000		
8	Audi	2020	Diesel	Used	50	1800000		

	consume Die		e keyed in cell	B9 to calculate	the total numb	er of cars sold that (2ma)
(c) Write a function that can be entered in cell H2 and copied down the column will display texts as shown the table below. State Remark New Automatic Remark Rem						•
(c) Write a function that can be entered in cell H2 and copied down the column will display texts as shown the table below. State Remark New Automatic Remark New New						
(c) Write a function that can be entered in cell H2 and copied down the column will display texts as shown the table below. State Remark New Automatic Remark New Automatic Remark Rem	•••••	•••••	•••••	•••••	•••••	•••••
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texts as shown the table below. State Remark New Automatic (3mar	(a) W			1101:-	1 1 11	:11 1:1
State Remark New Automatic	• •			H2 and copie	a down the con	
New Automatic	texts as snov			7		(Siidi



(i) Briefly describe three functions of a query as used in database.	(3marks)
(ii) (a) What is a primary key as used in database.	(2marks)
(b) State two functions of a primary key field.	(2marks)
(iii) A student created a relationship between two tables then entered data in the	
was unable to run the queries because of the Type Mismatch error (a) State the cause of this error	(1mark)
(a) State the cause of this error	(1mark)
(a) State the cause of this error	(1mark) (2marks)
(a) State the cause of this error (b) State how this error can be corrected	(1mark) (2marks)
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(a) State the cause of this error (b) State how this error can be corrected	(1mark) (2marks)



(v) Give three reasons to justify why telecommuting is gaining popularity in the modern	(3marks)
20. (a) Name two example of security monitors used to control unauthorized access.	(2marks)
(b) State three way in which hardware failure is a threat to data security.	(3marks)
(c) Alteration is illegal changing of data and information. This is one of the computer crecommon in the 21st Century. Describe three ways employed by organizations to curb	imes this vice. (3marks)
(d) Malcom is an employee of Kajambo LTD whose URL is http://www.kajambo.co.ke employees were directed by the manager to create email addresses hosted in the comwebsite. State how Malcom email address will look like.	



(e) A web browser have a navigation toolbar fitted with a number of command buttons. functions of each button of the navigation toolbar listed below.(i) History	(2marks)
(ii) Home	
(f) Highlight three advantages of email services over postal services	(3marks)