NAME	ADM NO
	CLASS
	SIGNATURE

451/1 COMPUTER STUDIES(Theory) FORM FOUR 2022 END TERM 2 EXAMS 2 ½ HOURS

MECS JOINT EVALUATION TEST

COMPUTER STUDIES PP1
FORM FOUR END TERM 2 EXAMINATION 2022

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and Admission number 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
	350	SCORE
A	1-15	
В	et 16	
.0	<u>v</u> 17	
61	18	
-Ole	19	
W	20	
	TOTAL SCORE	

SECTION A (40 marks)

Answer all the questions in this section.

	(ii) Phone chat via WhatsApp	
2.	a)List <i>two</i> categories of system software	(2marks)
	b) A warranty is an agreement between the buyer and the seller. It spells out terms at after selling a product in case of failure or malfunction. Describe any three basic requivarranty should cover.	
3.	Beryl does not understand why computers are said to be Automatic at the same time Intelligent Quotient (IQ)	they have No (2marks)
	, treek	
4.	Vero a student from Nyamira Girls lives in a house with full internet access. She sper time on phone and Desktop computer State any three social issues associated with described to the computer of the compu	
	et e	
5 syı	The following are symbols of some keys on the keyboard. Name the keys repmbols (2marks)	resented by the
б.	Give three reasons that might have necessitated the development of Second generation	on computers. (3 marks)

Describe to	wo password options that Ms-Word employ to protect its document	ts. (2marks)
Mention ty	wo limitations of using counterfeit software.	(2marks)
). Name the	computer parts listed below.	(2marks)
Diagr	Figure 1	
	Figure 2	
Name	4.40	
l. Describe t		(3marks)
l. Describe t	he following functions of the operating system. ork Management	(3marks)
l. Describe t	he following functions of the operating system. ork Management	(3marks)
(ii) Securi	he following functions of the operating system. ork Management	(3marks)
(ii) Securi	ty Handling	
(ii) Securi	ty	

	(ii) State a reason to justify why database administrators usually perform normalization					
	creat	ing a database for an organization.	(2marks)			
14	. Mention	three factors to consider when choosing a file organization method.	(3marks)			
15	. As Jayd	en was entering data into the computer, He typed byocott instead of boycott. Identify the type of error made by Jayden	(1 Mark)			
	ii.	Other than using direct data entry devices, state two other methods Tayden ca avoid the error	an use to (2 Marks)			
		Other than using direct data entry devices, state two other methods Tayden ca avoid the error				

SECTION B (60 marks)

Answer questions 16 and any other three questions from this section.

16.		
(a)	Describe the following qualities of an algorithm. (i) Definiteness	(2marks)
	(ii) Finiteness	
b)	Describe the three essential programming constructs which form the basis of struprogramming	ctured
	com	(3 marks)
_	ale s	
_	085100	
_	ekcset	
c)	State two advantages of low-level languages	(3 marks)
_	NS 8t	
	et [®]	
	one tree e	

d) The table below shows the monthly charges applicable to different amount of water consumed by clients in a particular town

Volume of Water consumed	Consumption in
in m ³	Kshs
0 -10	200
10 - 20	350
20 – 30	500
Over 30	1000

In addition to the consumption, the amount of the water bill will consist of a standing charge of Kshs 200 and a sewerage fee equivalent to 20% of the consumption.

the way the example of the state of the state of the state of the examination of the state of th (i) Write a pseudo code for a program that prompts a user to enter the volume of water consumed per month. The program then computes and output the amount of the water bill in a year.

(7 marks)

17.

(i) The table below is an extract from a spreadsheet use it to answer the questions that follow

	A	В	C D		E	F
1	Customer	Product	Quantity	Unit	Total	Type
	Number	Name		Cost		Remark
2	145321	Malomalo	20	100	2000	Bronze
3	143561	Kisambo	40	200	8000	Silver
4	156784	Weeti	40	400	16000	Gold
5	123454	Wheat	20	50	1000	Bronze
6	453218	Nyozi	10	10	100	Bronze
		27100				

(a)	Identify the Ms-Excel feature that is used in cell A1 and l	B1 to enable the texts appear the	3
	way they are.	(1ma	ark)

	/1 \	Name	41	1.4.	4	:	~ ~ 11	\mathbf{r}_{4}	~~~ 4	\mathbf{r}
- (D)	name	me	пана	ivne	111	сеп	F.4	ana	r٦

(2marks)

- (c) Use absolute reference to represent a formula that is used to calculate total for wheat (2 marks)
- (d) Suggest how named reference can be used to calculate the GRAND TOTAL.

(3marks)

(e) Write a formula that will classify product type base on the total as shown in the table below.

(2 marks)

.(A)					
Total	Type				
0-5000	Bronze				
5001-10000	Silver				
1000 and Above	Gold				

(ii) State the difference between Cc and Bcc. (2marks)

(iii) Mention three factors to consider when choosing an ISP. (3marks)

18. (a) What is the hinery equivalent of 12 / hase 10	(4marks)
(a) What is the binary equivalent of $^{12}/_{32}$ base 10.	(4illarks
(b) What is the decimal equivalent of the number 1.01112?	(3 marks
	off
c) Explain four control measures that can be taken to avoid unauthorized according to the control measures that can be taken to avoid unauthorized according to the control measures that can be taken to avoid unauthorized according to the control measures that can be taken to avoid unauthorized according to the control measures that can be taken to avoid unauthorized according to the control measures that can be taken to avoid unauthorized according to the control measures that can be taken to avoid unauthorized according to the control measures that can be taken to avoid unauthorized according to the control measures that can be taken to avoid unauthorized according to the control measures that can be taken to avoid unauthorized according to the control measures that can be taken to avoid unauthorized according to the control measures that the control measures the control measures that the control measures that the control measures the control measures that the control measures that the control measures the control measures the control measures that the control measures that the control measures the control measures that the control measures that the control measures that the control measures the control measures that the control measures that the control measures that the control measures the control measures that the control measures that the control measures that the control measures the control measures t	cess to data in a
Computer system or data.	(4 marks
ekcs .	
d) List four career opportunities in the field of ICT.	(2marks)
tarre	
e) With reference to DTP describe the following terms.	(2marks)
(i) Gutter	,
(ii) Stroke	

9.		
(i)	State two circumstances under which a system analyst may prefer to use questionr observation during facts finding.	naire instead of (2marks)
-		
- (ii)) Mention three operational factors that a system analyst need to consider when sou	rcing for
	hardware and software to be used with the proposed system.	(3marks)
_		
_	co _t ,	
(iii	i)Describe two advantages of parallel changeover.	(2marks)
-	nastV	
-	LC5eX	
-		
(iv)Name any two wireless communication devices	(2Marks)
	S	
v) I	Describe two factors to consider when choosing a transmission media.	(2marks)
	*/CO	
	The Chairman IEBC has called upon a System Analyst to implement an electronic r He intends to use voter's fingerprints, Identity cards and voter's cards as security m	
	free and fare elections. Recommend with reasons four input devices that they should	
-		
-		
_		
-		

20.

(i) The following records were entered in a database

Date	Class	Registration No
1/1/2007	East	1425-A
1/1/2008	North	1426-A
12/1/2008	North	1426-B

12/1/2006	NOILII	1420-В	
(a) Suggest a validation rule for	date given that it	should be not before 1/1/200	06 (2marks
(b) List the records that will be a (i) <>#1/1/2008ondate	lisplayed after run	ning the following criteria?	(2marks
		of C	
1426-A on class		e/S.C.	
		- to do	
(c) Write the input mask for reg	istration No	cel ₉₂	(1mark)
(d) Choose the most appropriate	data type for Date	and Registration No	(2marks
Explain the following terms as u (i) Word Wrap	sed in Word Proce	essing	(3marks)
(ii) Orientation	U.S.		
(iii) Indenting			
f) State three specifications that	t should be set in t	the print dialog box when pri	inting a document
			(3 marks)
g) State two major reasons why	organizations are o	opting for telecommuting.	(2 marks)

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