2920/102A COMPUTER APPLICATIONS I (THEORY) Paper 1 July 2021 Time: 2 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

MODULE I

COMPUTER APPLICATIONS I (THEORY)

Paper 1

2 hours

INSTRUCTIONS TO CANDIDATES

This paper consists of SIX questions.

Answer any FOUR questions in the answer booklet provided.

Candidates should answer the questions in English.

This paper consists of 4 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

	1260	Lope and the	
· Kings	(a)	Outline three types of user interfaces used in operating systems.	(3 marks)
Nove yor	(b)	With the aid of two examples in each case, explain the following terms as use	ed during
		relational database design: (i) entity: names real and a content of the content	
1 Argint	4		
1 1		(ii) attribute.	(4 marks)
Mill's by	(c)	Dorothy created a table in a database and selected the data type number for the named marks in the design view. Outline four Field Size properties she could selected for this data type.	d have
B	(d)	Paul used the <i>Presenter View</i> option to present his research results using a program. Outline four features that he could have used from this view.	(4 marks) 10
2./	(a)	Explain the term search engine as used in the Internet, giving two examples.	
W.	(b)	Describe each of the following types of operating systems:	0010 900
1645 hu	4	(i) single user single task; only one face	1
(8+24	NV3	(ii) single user multitasking may faces	(4 marks)
CJ SE	(c)) (b) (3)	A student keyed in data in a worksheet created using a spreadsheet program. two types of data types the student could have used in the worksheet.	Explain (4 marks) 2-
-17 -01 -CM -EE	(d) 2	Naks Company intends to connect its computers to the Internet. Explain two requirements they need for this connectivity.	(4 marks)
3/	(a) 🗿	Outline three advantages an organization would derive from installing a network operating system.	
X.	(b)	Peter applied each of the following keyboard keys combination in a word program:	ocessing
is res	re 1	(i) Ctrl + C; (ob) 12	12
V n	unter	(ii) Ctrl + Z; 54+	, -
V	eus)	(iii) Alt + F4;	by -9
1	effet	(iv) Alt + Tab. Space	72-3
	y no l	State the output he got when each of them was applied.	(4 marks)
· · ·	(c)	Differentiate between a footnote and an endnote as used in a word processing document.	(4 marks) 5-55
The state of the s	(d)	A publication designer inserted a picture on a brochure created using a deskto publishing application. Outline four ways he could manipulate the picture.	12 -3
4.	(a)	Outline the function of each of the following elements of an e-mail window:	
. 1.	P. Texas	i) header; whom topic when y at a top most part	
Los	C graye	(ii) message; telp comm the complete	
		(iii) signature to assure that your to one wiste considering	(3 marks)

Describe each of the following features as applied in databases: (b) Sorting; help to a range dels in other a showing adop (i) Indexing. Joints put for pot index. (4 marks) (ii)

Figure 1 shows data tools used in a spreadsheet program. Use it to answer the question (c) that follows.

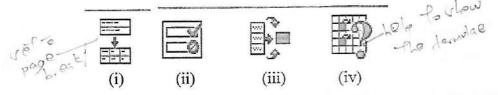


Figure 1

State the function of each of the tools labelled (i), (ii), (iii) and (iv). (4 marks)

Terry intends to design a brochure for a soap manufacturing company using a desktop (d) publishing program. Explain two types of margins she is likely to set. (4 marks) _ tolded one page - Pur pager (ASA4)

Outline the function of each of the following View Adjustment commands as used in a (a) presentation program window: New Window; 48 - new black window,

(i)

(ii) Arrange All;

(iii) Move Splitters. (3 marks)

Figure 2 shows projects evaluated by a company using a spreadsheet program. The (b) company determines the status as Accept or Reject respectively for each project, if the Internal Rate of Return (IRR) is above the percentage in cell B6.

	A	В	C
1		IRR	Status
2	Project 1	13%	Accept -
3	Project 2	9%	Reject
4	Project 3	7%	Reject
5	Project4	15%	Accept
6	•	10%	

Figure 2

Write a formula that may have been used to generate the status in cell C2:C5. (4 marks)

Distinguish between slide tab and outline tab as used in presentation programs. (c)

(4 marks)

(d) With the aid of a sketch in each case, outline the results of applying the following transformations to the object labelled I in a desktop publishing program.



- Left Rotation of 90°; (i)
- (ii) Flip Vertical.

(4 marks)

- 6. (a) Outline the meaning of each of the following field properties as used in databases:
 - field size: whow He muster of held of in des (i)
 - (iii) validation rule;
 - (iii) validation text.

(3 marks)

- (b) Ben applied timing transition effects on the slides he created using a presentation program. Outline four such effects he could have applied. (4 marks)
- Explain one circumstance that would necessitate an organization to use each of the (c) following data processing techniques:

 (i) batch processing: | 290 and 5 data | 5, and 6 data
 - (i)
 - online processing. were fixed in confical (ii)

(4 marks)

(d) Figure 3 is a section of a database table. Use it to answer the question that follows.

Student_ID	Student_Name	Semester	Age	1711 1111 1110
1001	John	1 st	19	rejeal
1002	Kate	2 nd	X <	——(ii)
1003	Morgan	3 rd	24	3/ //

Figure 3

(i)

Explain the type of integrity constraints applied in (i) and (ii).

(4 marks)

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