KASNEB

DICT LEVEL III

COMPUTER APPLICATIONS PRACTICAL II

MONDAY: 21 November 2016.

Time Allowed: 3 hours.

Answer ALL questions. Marks allocated to each question are shown at the end of the question.

Additional instructions:

- Save all your work in the flash disk provided and in a folder bearing your registration number.
- 2. Work on each question should be saved in the subfolder contained in the folder created in number 1 above. The name of the subfolder should correspond to the question number.
- Your registration number MUST appear as a header on every printout containing your answers.
- You must indicate the number of the question answered on the header created in number 3 above.

Note: The information in numbers 1-4 above must be computer generated.

At the end of the examination duration, you should hand in to the invigilator(s):

- (a) The flash disk containing your work.
- (b) All printed work.
- (c) All unused printing paper(s).

QUESTION ONE

Create a word processor document named "Question One".

Use Question One document to save solutions to questions (a) to (d) below:

- Differentiate between the following sets of terms in the context of spreadsheet program: (a)
 - Date () and today (). (i)

(2 marks)

Formulae and function. (ii)

(2 marks)

Highlight three advantages of general purpose applications. (b)

(3 marks)

Describe application software virtualisation as used in computing. (i) (c)

(2 marks)

State an advantage and a disadvantage of software virtualisation. (ii)

(2 marks)

Distinguish between escratch area" and "bleed" as used in desktop publishing. (d)

(4 marks)

(Total: 15 marks)

QUESTION TWO

Using a word processor program, create a document named "Question Two".

Use Question Two document to save solutions to questions (a) to (d) below:

- Explain the following terms as used in spreadsheet applications: (a)
 - Axis label. (i)

(2 marks)

Plot area. (ii)

(2 marks)

Tick mark. (iii)

(2 marks)

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(b) Explain four types of action queries in context of database systems.

(4 marks)

(c) Differentiate between a "primary key" and an "index" in context of database design.

(2 marks)

(d) State three activities involved in the design phase of a publication using a desktop publishing application. (3 marks)

(15 marks)

QUESTION THREE

Use a spreadsheet program to perform the tasks below:

(a) Create a workbook named "Final Results" containing a worksheet with students marks as given below:

	Α	В	, o Company	$\mathbf{p}_{i_1, i_2, i_3} = \mathbf{D}_i$	Ε	F	G
,1	First name	Surname	Software Engineering	Mobile Application	Strategy, Governance and Ethics	Average	Remark
2		David	40	60	70		
3	Judy	Hannah	60	50	90		
4	Peter	Morah	70	70	70		
5	Esther	James	80	80	80		
6	Naomi	Adams	50	40	40	1	†

(6 marks)

(b) Name the worksheet created in (a) above as "Result".

(2 marks)

- (c) Using an appropriate function, compute the average marks for each student in the "Average" Column.
- (5 marks)

Complete the "Remark" column based on the following condition: (d)

If a student's average mark is above 49, display "Pass" else "Fail".

(4 marks)

- Use the data in the "First name" and the "Average" columns to create a pre chart in the "Result" worksheet.(4 marks) (e)
- (f) On the pie chart created in (e) above, perform the following tasks:

Insert a title named "Marks analysis". (i)

(2 marks)

Position the legend at the bottom of the chart area. (ii)

(2 marks)

Save and print the "Result" worksheet.

(Total: 25 marks)

OUESTION FOUR

Open a database program and perform the following tasks:

(a) Create a database file named "Customers".

(2 marks)

(b) In the "Customers" database, create the following tables each with the fields provided.

CUSTOMER

(·) COSTONIER			
Field	Datatype	Width	Other
Customer ID	Number (Auto)		Primary Key
First Name	Text	15 char	
Second Name	Text	15 char	
Address	Text	20 char	Uppercase
City	Text	10 char	Uppercase

(2 marks)

(ii) PURCHASE

Field	Datatype		
Purchase ID	Auto Number		
Customer ID	Number		
Purchases total	Currency		
Date of purchase	Date		

(2 marks)

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(iii) SALES PERSON

Field	Datatype	Width	
Employee ID	Auto Number		
First Name	Text	20 char	
Last Name	Text	20 char	
Customer ID	Number		
Purchases	Text	20 char	

(2 marks)

(iv) Create a relationship between the three tables.

(3 marks)

(v) Print relationship report based on (iv) above with the page footer containing your registration number.

(2 marks)

(c) Open the database created in Question Four (a) above and perform the following tasks:

Create the following forms and enter data into each of the tables created in question four (b).

(i) CUSTOMER

Customer ID	First Name	Second Name	Address	City
1	Sarah	Amos	P. O Box 3	NAIROBI
2	Lucy	Karura	P. O Box 128	MOMBASA
3	Mike	Adams	P. O Box 100	KISUMU
4	Leni	David	P. O Box 200	NAIROBI
5	Koki	Ndemi	P. O Box 112	NYERI
6	Alan	Monda	P. O Box 321	MOMBASA

(2 marks)

(ii) PURCHASE

(II) I OKCHASI			
Purchase ID	Customer ID	Purchases total	Date of Purchase
001	2	20,000	2/4/2016
002	4	30,000	6/4/2016
003		40,000 🔉	8/4/2016
004	3	50,000	7/4/2016
005	5	60,000	10/4/2016
006	6	50.000	11/4/2016

(2 marks)

(iii) SALES PERSON

(III) STEEDS LE	110011	. 0		
Employee ID	First Name	Last Name	Customer ID	Purchase
i	Caster	Mary	3	Motors
2	Mark	Jasper	4	Cables
3	Tony	Orwa	1	Connectors
4	Cess	Michael	2	Connectors
5	Anne 📀	Jack	5	Motors
6	Opiyo	Alex	6	Fibre coats

(2 marks)

(iv) Create a report containing the following details:

Customer ID

Customer First Name

Customer Second Name

Address

Purchases total

Save the report as "Customers".

(2 marks)

(v) Use an appropriate method to create a query named "QryCustomers" showing all the customers who bought motors and connectors. Include customers' first name, last name and purchase. (2 marks)

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	(vi)	Use an appropriate method to purchases total of customers wh	create a query na no made "purchase	amed "QrySale s total" of abov	s" showing first nan e 40,000.	ne, second name and (2 marks)
	Save c	customers database and print "Qryo	Customers" and "C	rySales".		
						(Total: 25 marks)
	STION F	IVE f Talent Music School has contract	ted you to design t	ne school newsl	letter.	
Use a	desktop p	publishing program to perform the	following tasks:			
Requ						
(a)	Create	a single page publication.				(2 marks)
(b)	Set up	the page as follows:				
		Page size A4. Page orientation: portrait. Left margin 2.5 cm.				
		Right margin 2.5 cm. Bottom margin 2.0 cm. Top margin 2.0 cm.			Sets com	
				, eš	10/0/	(3 marks)
(c)	Set the	guidelines to horizontally divide t	he page into three	equal parts		(2 marks
(d)	Design	a logo using the words "Talent m	usic school" and p	lace it at the top	part of the page.	(2 marks)
(e)	Using •	word art, type the name of the scho	ool "Talent Music	School" on the	upper right corner.	(2 marks)
(f)	Using a	appropriate word art, insert the title	e "Talent monthly	newsletter".		(2 marks)
(g)	Insert t	wo suitable clip arts each measuring	ng 2 cm \$2 cm.			(2 marks)
(h)	Insert t	oday's date as a footer.	ind the			(2 marks)
(i)		h of the three columns, type the fo	llowing text		en de la companya de La companya de la co	
	Colum "At the sound a		ou realise that mus put to practise the concepts, tempo,	elements of mu meter and artici	usic such as pitch (whalation) dynamics (lo	nich governs melody udness and softness)
	"Music	n 2: Music Genres can be wided into genres such a of the many country sub-genres pen to personal interpretation and	. Although the di	viding lines an	ike country blues and d relationships are so	pop country. Thes ometimes subtle and
		n 3: Musical instruments Talent Music School you experience	ce each of the follo			
	•	Guitars.	ee each of the join	wing mstrumer	its.	
~		Keyboards and controllers. Live recording. DJ equipment and much more.				
	Sava H					(3 marks)
		e publication as "Newsletter".				
	Print N	ewsletter Publication.				(Total: 20 marks)
				••••••	••••••	TD34 Page 4 Out of 4

(c)

(d) (e)

(f) (g)

(h) (i)