NAME ……..…….. DATE ……

INDEX NO. …….……..…..… CANDIDATE'S SIGNATURE ……..…..……..

451/2
COMPUTER STUDIES
PAPER 2
(PRACTICAL)
TIME: 2½ HOURS

Kenya Certificate of Secondary Education

451/2
COMPUTER STUDIES
PAPER 2
(PRACTICAL)
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INSTRUCTIONS TO CANDIDATES

(a) Type your name and index number at the top right hand corner of each print out
(b) Write your name and index number on the diskette/CD-R provided
(c) Write the name and version of software used in each question on the answer sheet
(d) Answer **ALL** the questions
(e) Passwords **should not be used** while saving in the diskette/CD-R
(f) All answers **MUST** be saved in the diskette/CD-R
(g) Make print out of answers on the answer sheet provided
(h) This paper consists of 3 printed pages. Candidates should check to ensure that all pages are printed as indicated and no questions are missing

FOR EXAMINER'S USE ONLY.

Question	Candidate's score
1	
2	
Total score	

QUESTION 1

M/s Ann Momanyi, an ICT consultant with Makueni Distributors is in the process of developing a Management Information System (MIS) for the company. Currently, she is designing sales database using three tables namely: - customers, products and transactions. The details for each table are given below:-

Customers	Products	Transactions
Customer ID	Product ID	TransID
CustomerName	ProductDescription	clientName
PostalAddress	Packaging	TransacDate
Town	unitPrice	Product
Phone	Stock	Quantity

Questions

a) Create a database named MIS and in it create three relations (12marks)
b) Identify the most appropriate field as the primary key in each table (3marks)
c) Establish relationships among the three tables and enforce the referential integrity (6marks)
d) Create a form for each table. Save the forms as **Customer Form**, **Product Form** and **Transaction Form**. (9marks)
e) Use the respective forms to enter the following records in each table (6marks)

CUSTOMER TABLE

CustomerID	**Customer Name**	**Postal Address**	**Town**	**Phone**
H001	Andrew Mwove	209	Mutituni	200870
H002	Erick Onsongo	68	Nyamira	248567
H003	Brenda Nyabuti	100	Bomet	789678
H004	Lydiah Winzaa	250	Mwingi	778009
H005	Jeff Ogero	330	Keroka	666790
H006	Maureen Makuthu	550	Kakeani	780906

PRODUCT TABLE

ProductID	**Product description**	**Packaging**	**Unit price**	**Stock**
AA001	Cooking oil	20kg Gal	16000	80
AA003	Rice	50kg bags	4500	60
AB004	Detergents	5 litres	11000	40
AC006	Fertilizer	50kgs bags	4700	30
AA007	Mineral water	1.5litres	8200	400

TRANSACTION TABLE

CustomerID	Client Name	TranscDate	Products	Quantity
1001	Andrew Mwove	06/04/2007	Cooking oil	6
1002		26/4/2007	Mineral water	8
1003	Erick Onsongo	23/04/2007	Detergents	10
1004		14/4/2007	Cooking oil	12
1005	Maureen Makuthu	02/05/2007	Rice	4
1006		08/05/2007	Fertilizer	3
1007	Erick Onsongo	16/05/2007	Detergents	25

e) Create a query that displays the customer Name, Product Description, Quantity, Unit price and calculates field total payable by each customer. Save the query as MISQuery (5marks)
f) Generate a report from MISQuery. Save the report as MISReport (4marks)
g) Print the Customers, Products, Transaction table's design, MISQuery and MISReport (5marks)

QUESTION 2

1. (a) Create a new workbook and name it as form 2 computer exams (1mark)

Name	Class	Adm. No.	CAT 1	CAT 2	CAT 3	Total	Average	Class position	Remark
Maina John	E	7984	80	70	59				
Ken Korir	W	7896	75	55	72				
Bernard K	E	8092	86	59	75				
John Soi	E	7460	80	79	70				
Kipsang Bett	W	7892	76	75	80				
Mitei E	E	7800	38	48	25				
Mark J	W	8490	37	51	29				
Koech Ben	W	8184	30	86	75				
James W	E	8082	25	27	20				
Abuya Ken	E	8083	30	25	25				
Leonard	W	8047	39	24	25				

(b) Enter the following data in sheet 1 (15marks)
(c) Rename the sheet as term one result (1mark)
(d) Find:
  (a) Totals (1mark)
  (b) Average (1mark)
(e) Use the subtotals function to find the average of each class (5marks)
(f) (i) Use the IF function to award marks as follows (3marks)
- A student whose average is above or equal 65 is given "excellent"
- An average of 55 or above but less than 65 award "average work"
- An average less than 55 award "work below average"

  (ii) Award position to students basing on the average scored (3marks)
  (iii)On the last rows, enter formulas to count students from both classes (2marks)
(g) Sort the student list by class position in ascending order (2marks)
(h) (i) Copy the entire worksheet onto sheet 2 and rename it "lower group" (2marks)
  (ii) Filter "lower group" sheet to display students from "E" class and whose average score is below 50 (6marks)
(i) Draw a bar graph to display the following information (3marks)
- The three cats
- Names
- Titles as "TERM ONE COMPUTER RESULTS"

  (i) Place the legend at the bottom of the graph (1mark)
  (ii) Save the chart on a new sheet and name it graphical analysis (1mark)
(j) Print
  (i) The filtered lower group (1mark)
  (ii) The chart (1mark)
  (iii)Term one results sheet (1mark)