**NAME ……………………………………..……………….. DATE …………………………………**

**INDEX NO. …………….……….……..…..… CANDIDATE’S SIGNATURE …………..…..………..**

**451/2**

**COMPUTER STUDIES**

**PAPER 2**

**(PRACTICAL)**

**JULY/AUGUST 2014**

**TIME: 2½ HOURS**

**MBOONI EAST SUB - COUNTY FORM FOUR JOINT EVALUATION TEST 2014**

*Kenya Certificate of Secondary Education*

**451/2**

**COMPUTER STUDIES**

**PAPER 2**

**(PRACTICAL)**

**TIME: 2½ HOURS**

**INSTRUCTIONS TO CANDIDATES**

1. Type your name and index number at the top right hand corner of each print out
2. Write your name and index number on the diskette/CD-R provided
3. Write the name and version of software used in each question on the answer sheet
4. Answer **ALL** the questions
5. Passwords **should not be used** while saving in the diskette/CD-R
6. All answers **MUST** be saved in the diskette/CD-R
7. Make print out of answers on the answer sheet provided
8. 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** |  |

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**451/2**

**Computer Studies**

**Paper 2**

**(Practical)**

**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**

1. Create a database named MIS and in it create three relations (12marks)
2. Identify the most appropriate field as the primary key in each table (3marks)
3. Establish relationships among the three tables and enforce the referential integrity (6marks)
4. Create a form for each table. Save the forms as **Customer Form**, **Product Form** and **Transaction Form**. (9marks)
5. 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 |

1. 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)
2. Generate a report from MISQuery. Save the report as MISReport (4marks)
3. 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 |  |  |  |  |

1. Enter the following data in sheet 1 (15marks)
2. Rename the sheet as term one result (1mark)
3. Find:
4. Totals (1mark)
5. Average (1mark)
6. Use the subtotals function to find the average of each class (5marks)
7. (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)

1. Sort the student list by class position in ascending order (2marks)
2. (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)

1. Draw a bar graph to display the following information (3marks)
* The three cats
* Names
* Titles as “TERM ONE COMPUTER RESULTS”
1. Place the legend at the bottom of the graph (1mark)
2. Save the chart on a new sheet and name it graphical analysis (1mark)
3. Print
4. The filtered lower group (1mark)
5. The chart (1mark)
6. Term one results sheet (1mark)