**END OF TERM ONE – 2023**

**451/2 COMPUTER STUDIES**

**Paper 2 (PRACTICAL)**

**2 ½ hours**

**FORM FOUR**

**INSTRUCTIONS TO CANDIDATES**

1. Indicate your name and index number at the right hand corner of each printout
2. Write your name and index number on the CD/removable storage medium provided
3. Write the name and version of the software used for each question attempted in the answer sheet provided
4. Answer all the questions
5. All questions carry equal marks
6. Passwords should not be used while saving in the CD/removable storage Medium
7. Marked printout of the answers on the sheet
8. Arrange your printouts and staple them together
9. Hand in all the printouts and the CD/removable storage medium used
10. All the work should be saved at the desktop of your computer in a folder named with our name and index number. All the work in your folder should be burned to the CD/WR provided

**QUESTION ONE (50 MARKS)**

1. The following table contains details of Baharini Girls school

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ADMNO** | **House**  **No** | **Stud**  **name** | **DOB** | **RECEIPT**  **NO** | **Fees**  **Paid(kshs)** | **Fees**  **Bal(kshs)** | **House**  **Name** | **KCPE**  **MARKS** | **House**  **Capacity** |
| 1001 | H20 | Alice K | 7/4/1999 | 101 | 20000 | 5000 | simba | 380 | 200 |
| 1050 | S08 | Lilly O | 2/3/2002 | 894 | 18000 | 7000 | chui | 350 | 150 |
| 1202 | P30 | Mary | 8/10/2000 | 500 | 23000 | 2000 | Kifaru | 400 | 180 |
| 1025 | H20 | Juliet | 4/4/2000 | 258 | 25000 | 0 | Simba | 358 | 200 |
| 1200 | S08 | Joan | 5/1/2001 | 259 | 15000 | 10000 | chui | 398 | 150 |
| 1278 | H20 | Milly | 3/4/1998 | 200 | 15000 | 10000 | simba | 402 | 200 |
| 1201 | P30 | Linet | 2/7/1998 | 205 | 20000 | 5000 | kifaru | 356 | 180 |
| 1203 | S08 | Lisper | 9/5/2001 | 209 | 25000 | 0 | chui | 403 | 150 |

**REQUIRED**

1. Create a database file that can be used to store the above data. Name the file Baharini school database. (2mks)
2. Create Three tables, **student details**, **Accounts table** and **dormitory table** (11mks)
3. Format the following fields as follows:
   1. House number to maximum of 3 characters. (1mrk)
   2. Datae of birth as medium date (1mrk)
   3. Fees pad and fees balance in Ksh. In two decimal points (2mrks)
   4. House name of data type look up typed. (1mrk)
4. Create a relationship between the three tables (3mks)
5. Using appropriate forms, Enter the information given into the three tables (15mks)
6. Create a query for all students housed in Chui with their adm no and fee balance save as **Chui query** (3mks)
7. Design a “**current age query”** to display name, Fee paid and current ages of all the students (5mks)
8. Create a query **Last born** to display adm no of all the students who were born after 1999 and have paid more than 20,000. (4mks)
9. Create a report “**Hefty Balances”** showing students with fees balances and calculate total balance (3mks)
10. Print, The **Last born query, Hefty balance report** (2mks**)**

2. **QUESTION 2** *(****50MARKS)***

Use a spreadsheet to manipulate data in the table below.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Adm No** | **Name** | **Stream** | **Comp** | **Art** | **Bus** | **Eng** | **Mat** | **Student mean** | **Rank** |
| C001 | Barasa | H | 56 | 45 | 36 | 56 | 26 |  |  |
| C002 | Wangila | K | 58 | 57 | 90 | 54 | 23 |  |  |
| C003 | Wafula | H | 48 | 56 | 54 | 45 | 25 |  |  |
| C004 | Wanjala | K | 78 | 95 | 78 | 46 | 24 |  |  |
| C005 | Kerubo | H | 49 | 86 | 68 | 35 | 52 |  |  |
| C006 | Akinyi | K | 56 | 45 | 25 | 63 | 54 |  |  |
| C007 | Odhiambo | H | 75 | 78 | 45 | 65 | 56 |  |  |
| C008 | Okunyuku | K | 89 | 69 | 65 | 53 | 51 |  |  |
| C009 | Nekesa | H | 69 | 58 | 45 | 54 | 52 |  |  |
| C010 | Simiyu | H | 85 | 46 | 78 | 52 | 53 |  |  |
|  | TOTAL |  |  |  |  |  |  |  |  |
|  | TOTAL | FOR H |  |  |  |  |  |  |  |
|  | TOTAL | FOR K |  |  |  |  |  |  |  |

1. Enter the data in all bordered worksheet and fit all column. Save the workbook as

**mark 1**  (16mks)

1. Find the total marks for each subject (2mks)
2. Find total for each subject per stream using a function (4mks)
3. Find mean mark for each student using a function (2mks)
4. Rank mean student in descending order using the mean (3mks)
5. In cell B17 count the number of students with a mean mark of 70 and above.(2mks)
6. Create a column called Grade. Grade all the students based on the mean score as follows: greater than 70 “Distinction” Greater than 50 “Credit” Greater than 30 “Pass” else fail. (3mks)
7. Create a well labeled column chart on a different sheet to show the mean mark of every student. Rename the sheet as **mark 2.** (5mks)
8. Using **mark1,** use subtotals to find the average mark for each subject per stream. (6mks)
9. Copy the data in sheet 1 to sheet 3 and filter the data display only the students with distinction. (3mks)
10. Print **sheet 1,mark 2** and the **sheet 3** (3mks)