**END TERM EXAMINATIONS – TERM TWO 2023**

**451/2**

**COMPUTER STUDIES**

**PAPER 2**

**(PRACTICAL)**

**TIME: 2½ HOURS**

**Name**: ………………………………………………….....…… **Adm** **No**: ……….……

**School**: ………………………………………………………….. **Class**: …………………

**Candidate’s** **Signature**: …….………...................................... **Date**: …..…………….

**INSTRUCTIONS TO CANDIDATES**

1. Type your name and index number at the top right-hand corner of each printout
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 a print out of answers on the answer sheet provided

**FOR EXAMINER’S USE ONLY.**

|  |  |
| --- | --- |
| **Question** | **Candidate’s score** |
| **1** |  |
| **2** |  |
| **Total score** |  |

**Question One**

A school keeps its students details in a computer database. The information below contains details obtained from two tables of the database. Study the tables and answer the following questions.

 DETAILS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ADMNO | NAMES | KCPE MARKS | Year Of KCPE | DORMITORY |
| 2030 | Tom Jose | 250 | 2011 | Ruvuma |
| 2031 | Okoth Rao | 356 | 2012 | Zaire |
| 2032 | Ken Otieno | 412 | 2012 | Tana |
| 2033 | Dan Muoso | 205 | 2011 | Ruvuma |
| 2034 | Adan Hassan | 400 | 2010 | Zaire |
| 2035 | Ahmed Kubasu | 185 | 2011 | Tana |
| 2036 | Mutai Jemo | 289 | 2012 | Ruvuma |
| 2037 | Mutua Sarafi | 300 | 2012 | Zaire |
| 2038 | Muesh Linda | 426 | 2011 | Tana |
| 2039 | Viena Oscar | 405 | 2010 | Zaire |
| 2040 | Violet Kadija | 336 | 2012 | Tana |

PERFORMANCE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ADMNO | ENGLISH | MATHS | KISWAHILI | COMPUTER |
| 2030 | 59 | 48 | 56 | 83 |
| 2031 | 56 | 36 | 48 | 76 |
| 2032 | 29 | 25 | 59 | 80 |
| 2033 | 88 | 79 | 65 | 67 |
| 2034 | 70 | 29 | 62 | 91 |
| 2035 | 39 | 46 | 24 | 68 |
| 2036 | 82 | 78 | 18 | 84 |
| 2037 | 54 | 75 | 19 | 46 |
| 2038 | 69 | 54 | 46 | 87 |
| 2039 | 53 | 96 | 75 | 24 |
| 2040 | 74 | 20 | 49 | 50 |

1. Create a new database called STUDENTS. (2marks)
2. Design two tables: DETAILS and PERFORMANCE with the following properties in their fields:

 Validate the ADMNO entry to exactly four characters, three characters for KCPE MARKS and DORMITORY look up wizard. (3marks)

c) Using appropriate primary and foreign keys create a relationship between the two tables and enforce referential integrity. (3marks)

d) Create and use forms to enter data into tables. (12 marks)

e) Create a query that would extract students whose name starts with letter “A” and save it as “Names” (4marks)

f) Create a query that would display *ADMNO, NAME, ENGLISH, MATHS, KISWAHILI and COMPUTER* and calculate the totals of the four subjects, sort the totals in descending order. Save it as “MARKS” (4marks)

g) Create a query that would display only those students who sat their KCPE in 2012 and reside in Tana dormitory, save the query as “Tanas” (3marks)

 h) Create a form to display all fields of the Details table with the following specifications. Save the form as Full Report (6marks)

* Layout: -tabular
* Style: -opulent
* Title: -STUDENTS DETAILS
* Add two *form controls* to “print” and “close” the form.

i) Create a report with the title “Excellent” to display ADMNO, NAME, DORMITORY, TOTAL, group by dorm and show the average of every dorm, save as Excellent. (5marks)

j) Print:

1. Full Report form in portrait while the query “MARKS” in landscape. (2marks)
2. Performance table (1mark)

iii) Report excellent (1mark)

 **QUESTION 2**

Design a publication to appear exactly as shown in the next page using the following instructions. (20marks)

a) (i) Launch the DPT package and set measurements to centimeters and the margins 2cm all round

 (ii) Paper size A4 portrait.

b) Save your work as “Modern computers” (2marks)

c) The heading “*Introduction to computers The Basics”* to have the following styles. (5marks)

* Centered across the page
* Font face
* Font size: 18
* Background Texture: Granite
* Format the drop cap in the first line as it appears

d) The heading “Hardware” in the publication to have the styles. (5marks)

* Font face: Arial Narrow
* Font size: 16
* Text weight: Bold
* Character spacing: 180%
* Alignment: Centered

e) The text under the heading “Hardware” to be in two columns and having the following styles. (3marks)

* Font size: 12
* Dashed outline on the first column
* First character of the first column to be dropped by 4 lines as shown.

f) Insert the banner bearing the text auxiliary as it appears. (3marks)

g) - Enter the text below the banner in three columns as shown (4marks)

 - Insert lines between the three columns (3marks)

 - Type and format the text below the three columns exactly as it appears(3marks)

h) Print the publication. (2marks)

