**Name……………………………………………………… Index No……………………………………**

**Candidates Signature …………………… Date……………………………………**

**451/2**

**COMPUTER STUDIES**

**PAPER 2**

**(PRACTICAL)**

**JUNE 2017**

**TIME: 2 ½ HOURS**

**MID TERM EXAM -2017**

***Kenya Certificate of Secondary Education (K.C.S.E)***

**451/2**

**COMPUTER STUDIES**

**PAPER 2**

**(PRACTICAL)**

**JUNE 2017**

**TIME: 2 ½ HOURS**

**Instructions to candidates**

* Type your name and Index No at the top right hand corner of each printout.
* Write your name and Index No on the CD
* Write the Name and version of software used in each question on the answer sheet
* Passwords should not be used
* Answer all the questions
* All answers must be saved in a CD
* Make printouts of the answers

***Candidates should check the question paper to ascertain that***

***all pages are printed and no questions are missing***

1. The following are the KCSE results for a certain school.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **BARAKA HIGH SCHOOL** | | | | | | | | | | | | | |
| **NAME** | **ENG** | **KSW** | **MAT** | **BIO** | **PHY** | **CHE** | **GEO** | **ART** | **COM** | **FRE** | **AVE.**  **POINT MARK** | **OVERALL GRADE** | **RANK** |
| Njiru | B+ | B | A | B- | A | B | B- | A- |  |  |  |  |  |
| Manwa | C- | B+ | A | A- | A | C | A- |  | A |  |  |  |  |
| Kalulwe | B+ | B | A | B+ | A | B+ | B | A |  |  |  |  |  |
| Leonard | B+ | A | A | C- | A | A- | C+ |  | B+ |  |  |  |  |
| Fred | A | A | A | B | A | A | A- |  |  | B+ |  |  |  |
| Njogu | B+ | B+ | A | A- | A | A | A- | C+ |  |  |  |  |  |
| Muange | B+ | B | B | A | A | A+ | C+ |  |  | A |  |  |  |
| Kiprono | B | B+ | A | A- | C | B+ | A |  | A- |  |  |  |  |
| Wekesa | B+ | A | C+ | A | B- | B | A |  | A |  |  |  |  |
| Ndiragu | C+ | B+ | B | B | A | A | B+ | D+ |  |  |  |  |  |
| Opiyo | A- | B | B+ | D+ | A- | B | B | B- |  | A- |  |  |  |
| **Mean** |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. i. Enter the data using the given values above in excel and save your work as KSSEXCEL (15marks)
2. Two rows below the table above determine point scored by each student per subject. given that (7marks)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | A | A- | B+ | B | B- | C+ | C | C- | D+ |
| Value | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 |

1. Rename sheet1 to “Broadsheet” (1mark)
2. Perform the following calculations.
3. Get the average point (4marks)
4. Determine each student overall grade (5marks)
5. Determine each students rank using the Ave. Point Mark. (4marks)

d. Calculate Subject Mean (4marks)

e. **Draw** a Column Chart to display Subject performance (4marks)

* + - * Title as “SUBJECT ANALYSIS”
      * **Place** the legend at the bottom of the graph (2marks)
      * **Save** the chart on a new sheet and name it Subject Analysis (2marks)

f. Print

i) Broadsheet with formulae displayed (3marks)

ii) Subject Analysis (1marks)

2. You are the database administrator of Malcolm Computer Company which has branches all over the country. To maximize its profits, the company closely monitors its branch performance using computer. As the database administrator you are to use database to maximize the information required by the company.

1. Create a database file and name it MALCOLM (1Mark)
2. Create two tables named branch details and sales details from fields listed below (4Marks)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Branch code | branch name | Item code | profit | county | item | no of employees |

1. assign appropriate Primary key for the two tables and create relationship between them (3Marks)
2. (i) Create forms for Branch and sales Details tables and save as branch and sales form respectively (5Marks)

(ii) Use the forms to enter the records below (10 Marks)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Branch Code | Branch Name | County | No of Employees | Item Code | Item | Profit |
| 20100 | Millimani | Nairobi | 20 | 207 | Keyboard |  |
| 43200 | Nakuru | Narok | 35 | 304 | Monitor |  |
| 32100 | Westgate | Machakos | 25 | 104 | UPS |  |
| 67400 | Wilmer | Eldoret | 30 | 809 | Mouse |  |
| 52700 | Kathiani | Kondele | 26 | 802 | Printer |  |
| 73900 | Langas | Kisumu | 31 | 630 | Switch |  |
| 81400 | Ngamia1 | Lodwar | 15 | 307 | Cat 6 cables |  |
| 90100 | Mtwapa | Mombasa | 20 | 876 | Router |  |
| 43300 | Shoppers | Mumias | 15 | 743 | Motherboard |  |

(iii) (3 Marks)

Branch code Profit

20100 800,675

43200 1,210,256

32100 567,000

67400 750,555

52700 451,000

73900 741,200

81400 500,450

90100 678,500

43300 700,000

1. (i) Create a query to calculate and display the sales from every county given that the profit is 12% the sales amount. Include all the necessary details/ fields in your query. (5Marks)

(ii) Save it as sales query (2Marks)

1. (i) Create another query to display counties with sales greater than 6 million. Include all the necessary details/ fields in your query. (3 Marks)

(ii) Save it as leading sales (2 Marks)

1. (i) Create a tabular report with portrait orientation from sales query. Display the fields in the following order; branch code, branch name and sales (4 Marks)

(ii) Compute the total sales and place it below the profit column (2 Marks)

(iii) Remove the report pagination and insert your name and index number and save the report as sales report (2 Marks)

1. Print the branch details table, Sales details form (only one page), sales query, leading sales and sales report (5 Marks)