**name…………………………………………………………..adm no.……………class………….**

**Candidate signature………………………… Date…………………….……………..**

**451/2**

**Computer studies**

**Paper 2**

**(Practical)**

**2017**

**Time: 2½ hours**

**Kenya Certificate of Secondary Education 2017**

**Form four evaluation examination**

**451/2**

**Computer studies**

**Paper 2**

**(Practical)**

**2017**

**Time: 2½ hours**

**INSTRUCTIONS TO CANDIDATES**

* This paper consists of **TWO** Questions.
* Answer all questions.
* Do NOT use passwords to save your work.
* Save your work on the CD provided and label it with your name and Adm. no.

**FOR OFFICIAL USE ONLY:**

|  |  |
| --- | --- |
| **Question** | **Candidates** **Score** |
| **1** |  |
| **2** |  |
| **TOTAL** |  |

***This paper consists of 3 printed pages.***

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

***all pages are printed and no question is missing.***

**QUESTION 1**

1. The weight and height of players in a rugby team taken and their respective measurements were taken as follows:

Antony 65 175, Brian 60 168, Calvin 78 182, Joseph 75 172, Samson 70 164, John 59 160, Ibrahim 95 180, Reuben 80 169, Joel 87 188, David 92 190, Peter 83 180, Job 78 174.

1. Create a database file named TEAM KENYA that can be used to enter and store the above data. (8marks)
2. Goals scored by each player in the previous matches to be included in the database file as follows: Brian and Calvin two goals each, Joel and Peter have scored three goals each, Ibrahim and Antony have not scored any goal, while the rest have scored 1 goal each. Include these details in the database file and save as PRINCELOO. (9marks)
3. i) Make the field containing names to be the primary key. (2marks)

ii) Sort the database records in ascending order of players, goals scored and save the database as CHRISTIES. (5marks)

1. i) Create a query to display the names, height and goals scored for players whose weight are below 80kg. (6marks)

ii) Generate another query to display the names of players starting with letter ‘J’, Weight and goals scored, save the query as SAFARI 7. (6marks)

1. Create a report that displays Names, Goals scored, Weight and Height In that order for all the players and save the report as DALA7. (10marks)
2. Print PRINCELOO, CHRISTIES, SAFARI 7 and DALA7. (4marks)



**QUESTION 2**

1. Recent statistics collected from a survey in Africa, Europe and Australia there has been as increase in the number of Professional Doctors since the nineties. In 1990 in Europe there were 250 surgeons and 330 physicians, in Australia there were 220 surgeons and 310 physicians while in Africa there were 170 surgeons and 240 physicians.

a). Represent the above information on a spreadsheet and save it as DOCTORS\_1. (10 marks)

b). Compute the number of physicians and surgeons in the three continents in the 2000s given that the physicians and surgeons increased by 32.5% and 10.2% respectively. Round off the computed values to the nearest whole number. (9marks)

c). Compute the number of physicians and surgeons in the three continents in the 2010s given that the physicians decreased by 4.2% while surgeons increased by 10.7% from previous period. Round off the computed values to the nearest whole number. (9marks)

d). Add a label “COMPARE PHYSICIANS TO SURGEONS” and calculate this ratio for each of the three continents for the periods 1990, 2000s and 2010s rounded to 2 decimal places. (5marks)

e). Due to shortfall of physicians in Europe, the government decided to hire physicians from Africa. The family of each physician hired was to be paid 400 sterling pounds. The exchange rate was kshs 150 for 1 pound in 1990 and kshs 60 for 1 pound in 2000s and 2010s. If 150 physicians were hired in the 1990s, 165 in 2000s and 115 in 2010s, add a label called “HIRED PHYSICIANS” and calculate how much was spent in each period. Save the worksheet as DOCTORS\_2. (10marks)

f). Using a column graph, represent the number of physicians in Africa in 1990s, 2000s and 2010s, the title of the graph should be “AFRICA PHYSICIANS”. (5marks)

g). Print DOCTOR\_2 and the graph. (2marks)