**451/2 - COMPUTER STUDIES – Paper 2**

**(PRACTICAL)**

**DECEMBER 2021**

**TIME: 2½ HRS**

**MOKASA II EXAMINATION**

**Kenya certificate of secondary education**

**(K.C.S.E)**

**Name…………………………………………….………Adm. No……….…Class………………**

**Date: ……………………………………….……….Signature: ……………………………**

**INSTRUCTIONS TO CANDIDATES**

1. *Type your name and admission number at the top right hand corner of each printout*
2. *Sign and write the date of the examination below the name and index number on each printout*
3. *Write your name and index number on the compact disks*
4. *Write the name and version of the software used for each question attempted in the answer sheet*
5. *Passwords should not be used while saving in the compact disks*
6. *Answer all the questions*
7. *All questions carry equal marks*
8. *All answers must be saved in your compact disks*
9. *Make a printout of the answers on the answer sheets provided*
10. *Hand in all the printouts and the compact disks.*

*This paper consists of 4 printed pages. Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*

1. The table below shows list of students admitted to MOKASA School under different sponsors.
2. Open a database program and create a database named S**PONSORSHIP.** (1 mark)
3. (i) Create three tables named Students, Sponsor and Amount received by each student in the database file created in (a) using the following field properties. (10 marks)

**Student\_Table**

|  |  |
| --- | --- |
| **Field name** | **Data types and properties** |
| Sch-Code | Default value = 520 |
| AdmNo | Text (Size = 4, Required = Yes ) |
| Student Name | Text (Size = 12) |
| Date of Birth | Date and time (Size = 10) |
| AmountId | Text (Size = 4, Required = Yes ) |

**Sponsor\_Table**

|  |  |
| --- | --- |
| **Field name** | **Data types and properties** |
| SponsorID | Text (Size = 4, Required = Yes ) |
| Sponsor Name | Text (Size = 16)  |

**Amount\_Table**

|  |  |
| --- | --- |
| **Field name** | **Data types and properties** |
| BankID | Text (Size = 4, Required = Yes ) |
| BankName | Text (Size = 10) |
| Amount Per Student | Number (Size = 8, Decimal Place = 2) |
| Mode of payment | Text (Size = 12) |

 (ii) Create the relationship between the tables. (2 marks)

(iii) Enforce referential integrity between the tables. (1 mark)

(iv) Create the three forms **StudentForm, SponsorForm** and **AmountForm**. (3 marks)

(v) Enter the following data in their respective tables using the respective **forms**. (12 marks)

**Table 1: Sponsor\_Table**

|  |  |
| --- | --- |
| **SponsorID** | **Sponsor Name** |
| S1 | Myles  |
| S2 | Bishop  |
| S3 | Myles  |

**Table 2: Student\_Table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sch-Code** | **AdmNo** | **SponsorID** | **StudName** | **BankID** | **DateOfBirth** |
| 520 | 444 | S1 | Lilian Mwende | 100 | 12/03/2000 |
| 520 | 443 | S3 | Oscar Juma | 200 | 23/01/1998 |
| 520 | 445 | S2 | Chebara Omondi | 100 | 11/07/2002 |
| 520 | 442 | S1 | Bianca Godana | 300 | 12/05/2005 |
| 520 | 410 | S3 | Anorld Schawz  | 300 | 28/05/1999 |
| 520 | 413 | S2 | King kalala | 200 | 30/09/1998 |
| 520 | 449 | S1 | Marx Otaigo | 100 | 18/02/2005 |
| 520 | 411 | S3 | Biggie Smalls | 100 | 17/04/2001 |
| 520 | 412 | S2 | Brianna Kawaswa | 200 | 19/06/2004 |
| 520 | 415 | S2 | Muinde Jake  | 100 | 22/03/2003 |

**Table 3: Amount\_Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **BankID** | **BankName** | **Amount Per Student** | **Mode of payment** |
| 100 | COOP | **550,000** | EFT |
| 200 | KCB | **120,000** | M-banking |
| 300 | Sidian  | **420,000** | Cheque  |

**(c)** Create a query to display the fields:

1. AdmNo, Sponsor name, age and Students whose first name start with letter **“B”** and whose payment Bank is **“COOP”** Save query as **B-query**. (4 marks)
2. StdName, Sponsor name, Mode of payment and Amount per student. Calculate the total amount received. Save query as **AMount-query**. (3 marks)
3. StudName, Sponsor name, mode of payment and number of students whose age is above 15 and less than 18 years. Save query as **Age-query**. (3 marks)

**(d)** Create a bar chart to display students and their respective amount received. Save chart as S**-chart.** (2 marks)

**(e)** Create a **report** to display the fields as it appears in the figure below. (5 marks)



**(f)** Print the following: (4 marks)

1. the Student, Sponsor table and Amount table
2. the forms
3. two queries
4. The chart
5. the report
6. The figure bekow shows the design of a wedding card. You are required to use a desktop publishing software to design the card as it appears. Save as PRE\_WEDDING



1. Create the publication with the following page settings and layout: (4 marks)
2. Paper size : A4
3. Landscape orientation
4. Margins: 1.2cm all round
5. Enter the text and other objects and perform formarting to appear like the design above. (34 marks)
6. After completing the design, create a copy of the publication and save it As NEW\_CARD and apply the following formatting operations:
7. Set the text information starting with “To their pre-wedding…..” to te following font settings:
* **Font** **ype**: Arial narrow (½ mark)
* **Size:** 15pts (1 mark)
* **Line spacing**: 1.2sp (1 mark)
* **Indent**: Flush left (½ mark)
1. Automatically insert a calender and position to fit slightly above the church. Mark the pre-wedding date with a red color. (3 marks)
2. Apply these measurements to the rectangular object containing the heading title “Pre-Wedding Invitation” to 1.67cm height and 15.62 cm width. Add a glow effect (Accent 2. 18pt glow) to the rectangular object. (3 marks)
3. Put a gradient effect on the text object containing Thanks and God Bless you“. (1 mark)
4. Print both publications (2 marks)