**451/2**
**COMPUTER STUDIES**
**Paper 2**
**PRACTICAL**
**Oct./Nov. 2008**
$2^1/_2$ hours

**THE KENYA NATIONAL EXAMINATIONS COUNCIL**
**Kenya Certificate of Secondary Education**
COMPUTER STUDIES
**Paper 2**
**PRACTICAL**
$2^1/_2$ hours

**Instructions to Candidates**

*Indicate your name and index number at the top right hand corner of each printout.*
*Write your name and index number on the storage medium provided.*
*Write the name and version of the software used for each question attempted in the answer sheet.*
*Passwords **should not be used** while saving in the storage medium.*
*Answer **all** the questions.*
*All questions carry equal marks.*
*All answers **must** be saved in your storage medium.*
*Make a printout of the answers on the answer sheets provided.*
*Hand in all the **printouts** and the storage medium.*

**This paper consists of 4 printed pages.**

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

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1   The information given below is on products, suppliers and orders for a departmental store.

- Table 1 (products table) contains four fields representing product ID, the name of the product, the retail price of a unit of the product and the number of units of the product in stock respectively. The unique identifier of a product is its "**product ID**".

- Table 2 (suppliers table) contains five fields representing supplier ID, the name of the supplier, the supplier's contact address, town and telephone number respectively. The unique identifier of a supplier is the "**supplier ID**".

- Table 3 (orders table) contains seven fields representing order ID, products ID, supplier ID, the wholesale price of a unit of the product ordered from the supplier, the number of units of the product, the date the product was ordered and the date the ordered product was received respectively. The unique identifier of a product is its **order ID**.

**Table 1 (Products table)**

| 1 | Kimbo 1kg | 100 | 300 |
|----|-------------------|-------|-----|
| 2 | Cowboy 1kg | 120 | 180 |
| 3 | Batteries AAA | 50 | 200 |
| 4 | Salt 1kg | 25 | 45 |
| 5 | Sprite 300ml | 20 | 87 |
| 6 | Dasani 500ml | 30 | 65 |
| 7 | Baking flour 2kg | 89 | 89 |
| 8 | Batteries D | 60 | 32 |
| 9 | Layersmash 70 kg | 1,050 | 54 |
| 10 | Omo 200g | 35 | 21 |

**Table 2 (Suppliers table)**

| 1001 | Eveready | 54839 | Kitale | 77777 |
|------|----------|-------|---------|--------|
| 1002 | Unilever | 2361 | Thika | 256782 |
| 1003 | Bidco | 3345 | Nairobi | 345671 |
| 1004 | Cocacola | 45621 | Nairobi | 456781 |
| 1005 | Unga Ltd | 52428 | Nakuru | 26314 |
| 1006 | Kay Salt | 64365 | Mombasa | 332233 |

**Table 3 (Orders table)**

| 10001 | 1 | 1002 | 23 | 20 | 12/04/07 | 13/04/07 |
|-------|---|------|----|----|----------|----------|
| 10002 | 5 | 1003 | 16 | 40 | 11/11/06 | |
| 10004 | 2 | 1002 | 25 | 400 | 08/08/06 | 23/09/06 |
| 10005 | 4 | 1002 | 18 | 45 | 04/04/07 | |
| 10006 | 8 | 1006 | 24 | 50 | 12/12/06 | |
| 10008 | 7 | 1005 | 56 | 100 | 02/02/06 | |
| 10010 | 6 | 1003 | 20 | 20 | 14/03/07 | |
| 10013 | 5 | 1002 | 16 | 100 | 04/05/07 | 06/05/07 |

(a)  Use the information to create a database named A:FINAL DB and enter the data in tables 1, 2 and 3.                                              (30 marks)

(b)  (i)   Create the relationships between the tables.                        (4 marks)

    (ii)  Create a query to show the name of each product ordered, the retail price, the number of units ordered and the wholesale price.
The query should contain products whose retail price is below Kshs.50.
Save as CHEAP.                                                               (7 marks)

(c)  Create a form to allow the entering of the product details and add an appropriate form title.  Save as product form.                            (5 marks)

(d)  Print the three tables and the query.                                     (4 marks)

2    Faida distributors sells its products using ten sales representatives who are deployed at various regions.  Each sales representative presents weekly sales to the sales manager.  Four values are submitted each month as shown in table 4 below.  (Values are in Ksh)

Table 4

| 1 | O. Ouko | 12345 | 23405 | 17200 | 19450 |
|----|-------------|-------|-------|-------|-------|
| 2 | J. Wariahe | 34470 | 24500 | 19465 | 20200 |
| 3 | B. Achieng | 33000 | 26760 | 30750 | 19225 |
| 4 | Z. Kazungu | 15430 | 17665 | 12992 | 15789 |
| 5 | R. Wambua | 33412 | 37895 | 40217 | 22433 |
| 6 | S. Musuva | 13415 | 29334 | 20780 | 22900 |
| 7 | N. Wanjiku | 14520 | 28455 | 30200 | 16700 |
| 8 | F. Chepkoech | 25240 | 34285 | 25750 | 25625 |
| 9 | G. Juma | 30420 | 20400 | 24600 | 30200 |
| 10 | P. Kamau | 35520 | 32255 | 35400 | 31500 |

Each sales representative is paid a monthly commission depending on performance. Sales in the range of Ksh 0-65,000 attract a commission of 5%. Any additional sales attract a commission of 12%.

(a)    Using a spread sheet package, enter the information given in table 4 into a worksheet.    (10 marks)

(b)    Give the worksheet:

        (i)    an appropriate title;    (2 marks)
        (ii)    appropriate column headings.    (3 marks)

(c)    Using formulae, determine the:

        (i)    total sales for each sales representative;    (3 marks)
        (ii)    company's total sales for the month.    (2 marks)

(d)    Use functions to determine the:

        (i)    commission for each sales representative;    (10 marks)
        (ii)    total commission to be paid each month.    (1 mark)

(e)    (i)    Format the figures in the worksheet to two decimal places and add 1000 comma separators.    (1 mark)

        (ii)    Bold and centre the title across the columns containing the data.    (2 marks)

        (iii)    Apply a double outline border on the data.    (2 marks)

(f)    Create a labelled bar graph for the weekly sales of the first four sales representatives on a separate worksheet. Save the file as A:Faida 1.    (9 marks)

(g)    Sort the sales representatives in alphabetical order and save the file as A: Faida 2.    (2 marks)

(h)    Print A: Faida 1, A: Faida 2 and the bar graph.    (3 marks)