

NAME: _____

INDEX NO. _____

CANDIDATES' SIGNATURE _____

DATE: _____

451/2

PAPER 2

(THEORY)

JULY / AUGUST 2013

2 1/2 HOURS

KIKUYU DISTRICT INTERSCHOOLS EVALUATION
KENYA CERTIFICATE OF SECONDARY EDUCATION

COMPUTER

PAPER 2

(THEORY)

Instructions to students

- 1) Write your name and index number in the spaces provided above.
- 2) Sign and write the date of examination in the spaces provided above.
- 3) Answer all the questions.
- 4) This paper consists of **TWO** questions 1 & 2
- 5) Both questions carry equal marks.
- 6) Passwords must not be used when saving on the provided storage media
- 7) All answers must be saved in your CD/removable storage media provided.
- 8) Arrange your print outs and staples them together.
- 9) Hand over all the print outs and CD/removable storage media used

Question 1 - Databases

1. a). A hospital uses a database to maintain data about its employees. Create a database file named **EMPLOYEE**. (1mark)
- b). Create a table called **EMPLOYEE 1** with the following fields and hence enter data into it as shown in fig 1 below. (11marks)

NB: Choose an appropriate primary key and assign most appropriate data types to all the fields.

- EMP NO
- NAME
- DATE OF BIRTH
- DEPARTMENT
- BASIC PAY

Fig 1

EmpNo	Name	Date of birth	Department	Gross Pay
01	John Kirui	16/2/1972	Computer	28000
02	Margaret Wairimu	2/2/1960	Medical	30000
03	Jane Cherono	2/5/1970	management	15000
04	Victor Oduor	8/12/1981	Accounts	25000
05	Harry Wanyama	23/6/1983	Medical	30000
06	Jacob Kiprono	19/4/1973	Management	45000
07	Ali Mohammed	1/1/1969	Medical	30000
08	Daniel Omondi	3/5/1983	Accounts	25000
09	Everlyne Kitune	11/3/1971	Medical	20000
10	Nancy Kerubo	22/9/1980	Medical	20000

- c) (i). Insert **TWO** new fields to hold the employee's Profession and Deductions. (4marks)
- (ii). Data for included fields is as follows;

Profession

Mohammed, Wanyama and Wairimu are Doctors. Oduor and Omondi are accountants. Kiprono is an Administrator, Kirui is a systems analyst and Cherono is a secretary.

Deductions

<u>Emp No.</u>	<u>Amount</u>
07, 05, 02	8,000
04, 08	7,500
06	10,000
01	12,000
03	3,500
09, 10	4,000

Enter the above data into the respective fields.

(6marks)

(iii). Sort the records in ascending order based on the name field and save as

EMPLOYEE 2

(3marks)

- d) (i). From **EMPLOYEE2**, extract a list of employees who were born between 1960 and 1972 both years inclusive and are accountants, nurses or doctors. Write down on paper provided the *query expression* you used to extract the data. Save the extracted list

as **LIST1**

(8marks)

- (ii). Remove the date and occupation criteria on **LIST1**. Add a calculated field to calculate the Net pay of all employees as Gross Pay – Deductions. Save as **LIST 2**.

(7marks)

- e). Generate a columnar report based on **LIST2** with the following fields; Emp No, Name, Department and Net Pay. Sum up the Net Pay for all employees in the report. Save your report as **EMPLOYEES REPORT**.

(8marks)

- f). Print EMPLOYEE1, EMPLOYEE2, LIST 1, LIST 2 and EMPLOYEES REPORT.

(2 marks)

Question 2 – Desktop Publishing

2. a). Use DTP software to design the following receipt and save it as **Design 1**.

(34 marks)

KITALE		Tel. 0727-313459	
<u>INVOICE</u>			
TO: _____			
Date: _____			
DIASPORA PRINTERS			
Dealers in:- Card designs, Digital photos, Typesetting, Computer accessory sales and Stationary.			
QNTY	PARTICULARS	SHS	CTS
Pay the above amount for the goods delivered.			

- b). (i). Fit four copies of the above design on a single page.

(8marks)

- (ii). Include a page footer with your name and index number and a page header with the words “**Computer Designs**” Save it as **Design2**.

(6marks)

- c). Print the Design1 and Design2.