

451/2

COMPUTER STUDIES

Paper 2

(PRACTICAL)

2015

TIME: 2½ hours

MAKUENI COUNTY KCSE 2015 PREPARATORY EXAMINATION

Kenya Certificate of Secondary Education

COMPUTER STUDIES

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TIME: 2½ hours

**Instructions to candidates**

- (a) Write your name and index number at the top right hand corner of each print out.
- (b) Write your name and index number on the CD-R provided.
- (c) Write the name and version of software used in each question on the answer sheet.
- (d) Answer **ALL** the questions.
- (e) Passwords **should not be used** while saving in the CD-R.
- (f) All answers **MUST** be saved in the CD-R.
- (g) Arrange your printouts and tie/staple them together.

*Sponsored by H.E. Prof. Kivutha Kibwana, Governor, Makueni County.*

TURN OVER

## Question 1

A firm keeps its details in a computer database. The information below contains details obtained from two tables of the database. Study the tables and answer the questions that follow.

Employees Table

Employee ID	Employee Name	Department	Job Title	Salary
7369	Mark Koech	Research	Clerk	48000
7499	Philip Meme	Sales	Salesman	16000
7521	Mohamed Ali	Sales	Salesman	12500
7566	Kennedy Simiyu	Research	Manager	39750
7698	David Kamau	Operations	Manager	38500
7782	Titus Ole Simian	Accounting	Manager	34500
7788	John Onyango	Operations	Analyst	30000
7821	Patel Shah	Operations	Analyst	25000

Department Table

Dept Code	Department	Location
10	Accounting	Nairobi
20	Research	Nakuru
30	Sales and Marketing	Mombasa
40	Operations	Kisumu

Required:

- Create a database that can be used to store the above data and save it as MACAL in the disc provided. Create the tables and name them appropriately. (6 marks)
- Using appropriate primary and foreign keys, create a relationship between the two tables. Enforce referential integrity between the tables. (4 marks)
- Validate the primary key entry to exactly four and two characters for the EmployeeID and DeptCode fields, respectively. (4 marks)
- Create a form for each table and use it to enter the records shown in the tables above. Save the forms as EmployForm and DepartForm, respectively. (11 marks)
- It is required that the dates on which the employees were hired be included in the database. Koech was hired on 10/06/1998, Meme on 15/08/1996, Mohamed on 16/03/1996, Onyango on 09/03/2003, the rest were hired on 13/03/2004. Insert a new field, name it Date of Hire in the Employees table and enter the field. (5 marks)

- (f) Create a query that displays employees who were employed after the year 2000. Save the query as LatestEmployees. (4 marks)
- (g) Create a Report that displays the Employee Name, Job title, Department name and Salary, grouped according to location. Save the report as EmployeeReport. (4 marks)
- (h) (i) Create a query to display the employees, their job description, and locations. Save it as EMPTYTYPE. (3 marks)
- (ii) Create a pie chart based on the query in h(i) above to display the proportions of the employees in various job descriptions. Save the report as CHART. (4 marks)
- (i) Print: (5 marks)
- (i) Employees and Department table designs.
  - (ii) Employee and Department forms.
  - (iii) LatestEmployees Query.
  - (iv) EmployeeReport.
  - (v) The Chart.

## Question 2

- (a) Design a newsletter publication to appear as indicated in the next page using the following instructions and save it as "CHAMP". (2 marks)

**NOTE:** Use any appropriate picture for the graphic in the design.

- (b) Set the preference measurement to centimetres and document margins to 1.25 on all sides. (2 marks)
- (c) The heading "Extreme News" to have the following styles: (2 marks)
- Centred across the box
  - Font face: Arial
  - Font size: 48
  - Background colour; Accent 1
- (d) The other two headings in the publication to have:
- Font face: Arial Narrow
  - Font size: 25
  - Text weight: Bold
  - Character spacing: 150
  - Alignment centred across the text box
  - Text colour: Blue (2 marks)

- (e) The text under the heading “Surfing Championship Tours” to be in two columns with the following styles: (15 marks)
- Font size: 10
  - First character of the paragraph to drop 4 lines
  - Hyphenation: Disabled
  - Full justified
  - The columns text boxes should be linked
- (f) The heading “Mountain Biking” to have fill effects gradient with two colours; Red and Green. (5 marks)
- The text under heading “Mountain Biking” to be in three columns and link the columns. (8 marks)
- (g) Design the “Mondays, Student Centre, 7 pm” advertisement in the position shown. (5 marks)
- (h) Insert the “Extreme Sports Club” section with text running from top as shown. (5 marks)
- (i) Add the note below “Extreme Sports Club” as shown with font: Baskerville old face, font size: 12.
- Include the line design above and below it. (3 marks)
- (j) Print the publication. (2 marks)

Extreme  
Sports Club

# Extreme News

Volume 3, Issue 1

July 2, 2015

## Surfing Championship Tour

**A**re you ready to see Doug, Ross, Spiel, Freddie, and Nate the Great mix it up? The Surfing Championship Tour (SCT) is coming to town Thursday, September 15.

The world's top-rated professional surfers will be making their only local appearance next week. A 10-day waiting period from September 5-14 will guarantee the best surfing conditions possible as the top-25 surfers in the world battle it out for \$250,000 in total prize money.

The last time the SCT visited our beaches, newcomer Doug pulled off a big victory

over Jon Redmond. Now Doug returns with veteran Nate the Great to mix it up with rising superstars like Australians Freddie Mantel and Spiel Connors. Aaron and Ross are relying on local knowledge to give them an advantage over the international field.



Nate the Great, at it again!

The proximity of the event to the Extreme Expo will attract the surfing world's top luminaries and put added pressure on contestants to perform at their highest

levels.

Also scheduled is a paddle-out ceremony at the beach on the morning of September 11 to commemorate the anniversary of the tragic events in New York City, Washing-

### Special points of interest:

- Surfing Championship Tour, September 15
- X-Meeting Mondays, 7:00 p.m. Student Center
- Gravity Games at Back Campus Days, October 1-2

*"Mountain biking isn't just great exercise, it's a great way to take a break from everything!"*

## Mountain Biking

**I**t's a whole new world when you're mountain biking," says Ken Jones, biking enthusiast and V.P. of the Extreme Sports Club. "You have so much more stimulus with the trees and the terrain." Although he still puts the miles on his road bike, Jones says

that when he is on his mountain bike, he gets better workouts in

In fact, mountain biking, or all-terrain biking (ATB), is one of the faster growing sports, according to the Northern California Mountain Bike Association, an organization formed to promote responsible mountain biking.

**Mondays, Student Center, 7 p.m.**

shorter amounts of time.

Jones is not the only one who has made the switch from road to dirt.