THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education

451/2 — **COMPUTER STUDIES** — Paper 2
(PRACTICAL)
Nov. 2019 – 2½ hours

Instructions to candidates

(a) Write your name and index number at the top right hand corner of each of the papers provided for printing.

(b) Write your name and index number on the CD/Removable storage medium provided.

(c) Write the name and version of the software used for each question attempted in the printouts used.

(d) Answer all the questions.

(e) All questions carry equal marks.

(f) Passwords should **not** be used while saving files.

(g) All files must be transferred to the CD/Removable storage medium.

(h) Make printouts of your answers on the papers provided for printing.

(i) Arrange your printouts and tie/staple them together.

(j) Hand in all the printouts and the CD/Removable storage medium used.

(k) **This paper consists of 5 printed pages.**

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

(m) Candidates should answer the questions in English.

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1. Form 1 Class Teachers of Mwango Secondary School intend to use a database to manage students performance in three examinations: opener, mid term and end term examinations.

   (a) Open a database program and create a database named **analysis**. (1 mark)

   (b) (i) Create three tables named Class, StudDetails and StudMarks in the database file created in (a) using the following details: (14 marks)

Class Table

Field Name	Data Type and Properties
ClassID	Text (size = 2)
ClassName	Text (size = 25)
Teacher	Text (size = 25)

StudDetails Table

Field Name	Data Type and Properties
AdNo	Number
StudName	Text (size = 25)
Gender	Yes/No (Yes for Female)
ClassID	Text (size = 2) Look up values, 1E, 1N, 1W

StudMarks Table

Field Name	Data Type and Properties
AdNo	Number
Opener	Number
MidTerm	Number
EndTerm	Number

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

   (iii) Create a form for the Class table and add a subform for the StudDetails table using the format in **figure 1**. Save the form as **dataentry**. (4½ marks)

| ClassID | | ClassName | | Teacher | |

AdNo	StudName	Gender	ClassID

Figure 1

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(iv) Enter the following data into their respective tables in the database.   (12½ marks)

Class Table

ClassID	ClassName	Teacher
1E	Form One East	Elvis Barongo
1N	Form One North	Alice Nadiya
1W	Form One West	Paul Mkacharo

StudDetails Table

AdNo	StudName	Gender	ClassID
7984	Mary Kikoti	Female	1E
7460	Erica Kamburi	Female	1E
7800	Axlam Khan	Male	1E
8083	Martin Mkanjala	Male	1E
8092	Esther Peresian	Female	1N
8490	Micah Lokiyoto	Male	1N
8082	Mohamed Ayan	Male	1N
7896	Mark Kwalima	Male	1W
7892	Morgan Lema	Male	1W
8184	Emily Mawasi	Female	1W
8047	Edward Omogeni	Male	1W

StudMarks Table

AdNo	Opener	MidTerm	EndTerm
7984	85	76	82
7460	73	84	79
7800	78	79	86
8083	81	75	87
8092	73	76	83
8490	71	71	87
8082	81	70	90
7896	88	85	88
7892	85	84	89
8184	85	81	83
8047	90	75	86

(c) Create a query to display the fields:

    (i) AdNo, StudName, ClassID, Opener, MidTerm and EndTerm for all students in Form One East. Save the query as **F1E**. (4½ marks)

    (ii) AdNo, StudName, ClassID, Opener, MidTerm and EndTerm and a calculated field named **meanscore** to display the average in the three examinations. Save the query as **overall**. (6 marks)

(d) Create a report to display details of each student as it appears in Figure 2. (2½ marks)

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┌─────────────────────────────────────────────────────────┐
│                MWANGO SECONDARY SCHOOL                    │
│                END OF TERM REPORT FORM                    │
│                                                           │
│  Ad No  [        ]    Name  [          ]   Class Name [  ]│
│                                                           │
│  Opener        [                  ]                       │
│                                                           │
│  Mid Term      [                  ]                       │
│                                                           │
│  End Term      [                  ]                       │
│                                                           │
│  Mean Score    [                  ]                       │
│                                                           │
└─────────────────────────────────────────────────────────┘
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Figure 2

(e) Print out each of the following: (3 marks)

    (i) the three tables

    (ii) the two queries

    (iii) report for the first two students

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2. The Chief Printer of Zenith Printers Company would like to have business cards. As a Desktop Publishing (DTP) expert, you have been tasked to design the card for the officer.

(a) (i) Open a Desktop Publishing program and set the page layout as follows:

- Paper size: 8.5 cm width by 5.5 cm height
- Layout type: multiple pages per sheet
- Target paper size: A4
- Orientation: Portrait
- Margin: 0.75 cm all round   (5 marks)

(ii) Save the publication as **business card.**   (1 mark)

(b) Design the card as it appears in Figure 3 ensuring that the card covers all the space in the page.   (42 marks)
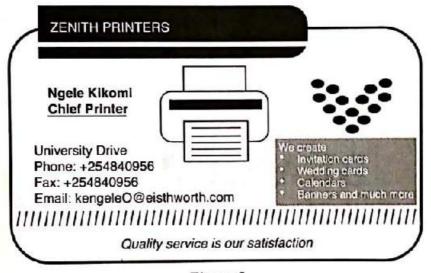

ZENITH PRINTERS

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Chief Printer

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Fax: +254840956
Email: kengeleO@eisthworth.com

We create
- Invitation cards
- Wedding cards
- Calendars
- Banners and much more

Quality service is our satisfaction

Figure 3

(c) Print out 10 copies of the card on a single A4 page.   (2 marks)

THIS IS THE LAST PRINTED PAGE.